FEBRUARY 1958

CONCRETE

For producers of precast and prestressed concrete products and ready mixed concrete



California firm precasts floating concrete docks

Lighter, less costly plywood pallets

THRIFTY MODELS by GOCORP PRICED FROM \$14,000.

2X and 21/2X HYDRAULIC BLOCK MACHINES

(formerly GOCORP "JETS")

- SPEED—Conservatively rated at 600 good blocks per hour.
- QUALITY BLOCKS—Quick change feed and strip time controls to handle troublesome mixes • Automatic, low voltage height control • A block receiver that babies your blocks.
- HYDRAULIC DRIVE—For swift, smooth, effortless motions.
- RUGGED—Full 1" side plates—thoroughly cross braced
- Motors, pumps, shafts, single acting cylinders are all oversized for real staying power
 Plug stop reversing vibrator motors—no brake failures. Maintenance costs reduced to the minimum.
- ACCESSIBLE—NO PIT REQUIRED—Working parts are where you can get at them
 Change full height molds in about 20 minutes—to other heights in about 30.

FOR HIGHER PRODUCTION AT A LOWER UNIT COST, WRITE TODAY FOR YOUR BROCHURE ON THE FOUR TRUSTEE MODELS.

OTHER GOCORP PRODUCTS

BLOCK MACHINES: "Super" and "Special" Trustees (3X models), "Senior" and "King" (Plain Pallet); "Junior" and "Junior Twin" (cored pallet) • **RACKMAN**—the first proven automatic rack loading device • Mixers and Skip Loaders • Cubers and Offbearers • Allied Equipment.



UNIFORM PRODUCTION

FOR BLOCK AND READY MIX PLANTS

FOR UNIFORM **BLOCK PRODUCTION**

HYDROBOT

HYDROBOT is an electronic instrument to automatically shut off the mix water when the mix is the proper consistency.

ACCURATE - Will duplicate batches with far greater precision than human judgement.

SIMPLE - Installed by your own maintenance man. Single dial adjustment. Allows easy setting for any moisture adjustment.



\$278.00 DELIVERED LESS 2%, 10 DAYS



FOR UNIFORM READY MIX PRODUCTION MARK X, HO METER

The MARK X is an electronic instrument to determine the moisture in fine aggregates, such as sand, screenings, etc.

ENGINEERED — to be the most reliable and accurate instrument produced for the purpose at any price.

POPULAR — Most widely used Moisture Meter ever marketed — THE STAND-ARD OF THE READY MIX INDUSTRY.

VISUAL - Batcher can detect a moisture change at a glance. Give him a break on controlling slump for you.

\$178.00 DELIVERED LESS 2%, 10 DAYS



SARASOTA ENGINEERING COMPANY, INC.

SEE US AT THE NRMCA SHOW CONRAD HILTON - FEBRUARY 10-14

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MANUFACTURERS

Telephone: Ringling 7-3034

CONSULTANTS

Cable Address: "Sarenco"

Concrete Wings Over Idlewild!



'INCOR' CONCRETE CANTILEVER ROOFS PROVIDE VAST FIRE-SAFE HANGAR SPACE FOR PAN AM AND TWA

At New York's bustling, burgeoning International Airport — Idlewild — two remarkable new hangars stand side-by-side. They were built for Pan American World Airways and Trans World Airlines by two internationally prominent construction firms, using different forming methods.

Both hangars feature lightweight concrete cantilevered roofs 4½-in. thick, suspended by cables from anchor walls that span the central core structure. Wing-tip to wing-tip the hangar shown is 360-ft, wide; its mate is 412-ft, wide. Beneath these "wings" extends vast unobstructed hangar space where several giant airliners can be serviced simultaneously on both sides of the hangars. Over 30,000 bbls. of 'Incor'*—America's first high early strength portland cement—and 45,000 bbls. of Lone Star Cement were used in the structures.

*Reg. U.S. Pat. Off.



UNDER A WING. Each cantilevered section spans a vast area. Doors will ride on rails, far left. Piping is for radiant heating. Sunlit gaps across shadow indicate roof slab joints still ungrouted.

Airport Operator:
PORT OF NEW YORK AUTHORITY

TRANS WORLD AIRLINES

Engineers: AMMANN & WHITNEY New York, N.Y.

Contractor: GROVE, SHEPHERD, WILSON & KRUGE, INC. New York, N.Y.

Ready-Mix Concrete
M. F. HICKEY CO., INC.
Brooklyn, N.Y.

PAN AMERICAN WORLD AIRWAYS
Atlantic Division

Atlantic Division

CHESTER L. CHURCHILL Structural-Engineers AMMANN & WHITNEY

Contractor: CORBETTA CONSTRUCTION CO.

Ready-Mix Concrete
COLONIAL SAND & STONE CO., INC.
All of New York, N.Y.

Precast Panels: PRECAST BUILDING SECTIONS INC. New Hyde Park, L.I.



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LONE STAR CEMENT, WITH ITS SUBSIDIARIES, IS ONE OF THE WORLD'S LARGEST
CEMENT PRODUCERS: 21 MODERN MILLS, 48,900,000 BARRELS ANNUAL CAPACITY

"Tru-lite" by North Hollywood

N.C.M.A.
CONVENTION
CHICAGO
FEB. 17th - 19th

Today's Growing Concrete Block Market Means

PROFITS

A COLUMBIA 12"-HIGH WILL GET A BIGGER SHARE OF THESE PROFITS FOR YOU... new faces, a variety of special shapes and sizes in concrete units continue to open up new markets for the alert, progressive block plant operator!

You can cash in on the growing domand of this expanding market . . . a market made possible by COLUMBIA'S creation of the 12"-HIGH . . . the one block machine on the market that successfully produces all three: 4"-high, 8"-high, as well as 12"-high units in a wide variety of shapes and sizes —Roman brick, Norman tile, silo staves, water meter boxes, flue liners, partition block, hexagonal drain tile, prestressed units, fence posts, specially designed face blocks, and other special shapes.

The COLUMBIA 12"-HIGH—the one-machine block plant—operating at 4 to 6 cycles has the production capacity needed to meet the demand. The electronically-controlled, fully-automatic 12"-HIGH is powered by positive hydraulic action. Super-fast agitation with electronic height and density control, assures uniform delivery of the aggregate to the molds to give continuous production of quality block.

The 12"-HIGH is extremely compact, occupying only a minimum of plant space giving the highest production per square foot of plant space occupied as well as per dollar invested . . . it will out produce any machine regardless of price.

It's EASY TO OWN A COLUMBIA 12"-HIGH. The low original price represents an easily amortized capital investment. Flexible "pay-as-you-depreciate" plan makes you the owner of this profitable piece of concrete manufacturing equipment on an easy-to-pay basis.

There is a Columbia representative in your area... for information cull, write, wire

Olumbia MACHINE Home Office: 107 S. Grand, Vancouver, Wash.
Factory Branch and Warehouse: MATTOON, ILLINOIS Parts Depot and Office: BURBANK, CALIFORNIA

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MAGNETIC RETURN

3-BLOCK

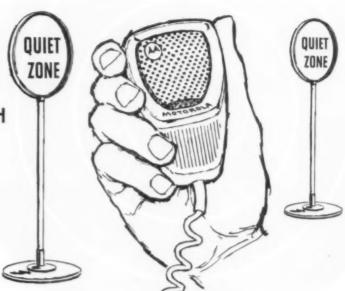
2-BLOCK

BATCH MIXERS

NEW
MOTOROLA

DUAL-SQUELCH
PRIVATE-LINE

2-WAY RADIO...



silences all channel traffic except your own messages



PRIVATE-LINE radiophone is now available in T-POWER (shown above), which features a completely transistorized power supply. Also available as 6/12 volt TWIN-V radio.



Get the complete facts about this startling new type of 2-way radio. Write today for these 2 new folders on PRIVATE-LINE radiophone. Now, with the new Dual-Squelch PRIVATE-LINE radio, you get all the benefits of improved PRIVATE-LINE operation . . . plus easy integration for mixed fleets and monitor-before-transmit.

Because PRIVATE-LINE radio is quiet except when receiving a call from another radio in your own system, you eliminate all the "channel chatter." It's much like having the frequency all to yourself. You benefit by reducing the number of missed or misunderstood messages . . . operator fatigue is reduced . . . overall efficiency is increased.

Dual-Squelch private-line radio gives you these basic features . . . and more. Now you can make a gradual changeover to private-line operation. During the transition period, your messages can be received by both Motorola conventional and private-line radios. No longer is it necessary to make the complete changeover to private-line operation at the same time. And with the new Dual-Squelch operation, you can have manual selection or optional automatic monitoring of the channel before transmitting.

Before you select your 2-way radio, you'll want to investigate Motorola Dual-Squelch PRIVATE-LINE radio.



MOTOROLA

PRIVATE-LINE RADIOPHONE

MOTOROLA Communications & Electronics, Inc., A Subsidiary of Motorola, Inc., 4501 Augusta Boulevard, Chicago 51, Illinois

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CONCRETE For producers of precast and prestressed concrete products and ready mixed concrete

VOL. 66, NO. 2

FEBRUARY 1958

FEATURES FOR THIS MONTH

Construction Forecast, 1958: Higher Dollar Volume22

Overall, construction in 1957 hit a dollar volume of more than \$65 billion, and the Associated General Contractors predict a figure close to \$68 billion for 1958. Two of the factors contributing to this increase, according to the A.G.C., are highway construction and a recovery in residential work.

By adding a whipped creamy like substance, very similar to that used in fire equipment, to the concrete at the job site, Goff-Kirby makes a foam concrete weighing approximately 75 pounds a cubic foot. By R. J. Crouse

Fibrecrete Corporation, Long Beach, Calif., uses a particular lightweight concrete and specially designed molds to manufacture floating concrete docks and sections that can be juined together to form piers.

Schneider Concrete Products, Elgin, III., pipe: hot oil, at 400°F., through water troughs in their kilns to produce steam for curing. This use of hot oil substantially reduces some of the costs and problems usually occurring with the production of steam.

A manufacturer of concrete brick, Holloway House Wrecking Co., New Orleans, has found plywood pallets to be lighter and less expensive, both initially and over a period of time. Average life of a pallet is three years, and it doesn't require periodic cleaning.

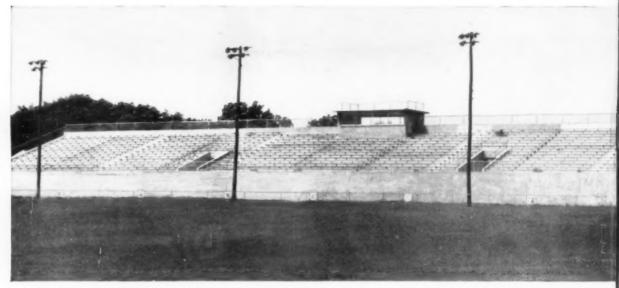
Mankato Concrete Masonry Co., Mankato, Minn., realizes a number of advantages from the Installation of their Automatic Batching Control system, possibly the largest being the production of 5,000 trouble-free batches, giving 500,000 block, in a six-month period.

Because of the huge number of births during and since World War II, the home-building and construction industries in the coming years—the period named 196X by HOUSE & HOME—should be booming. But, according to HOUSE & HOME, the trend will be toward larger, factory-made, easy-to-install wall, floor, and roof sections. The question posed is how can our industries maintain their position of importance?

DEPARTMENTS

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Getting Ready Fast for



Anderson Field Stadium in Fort Valley, Georgia. Manufacture and erection of this 2900-seat stadium was performed by Macon Prestressed Concrete Company, Macon, Ga. 7/16" Union Tufwire strand was used exclusively in the stadium slabs, which were erected in less than 5 days working time.

Owner of the structure is Peach County Board of Education, Ernest R. Anderson, superintendent. Architects: Warren & Riley, Macon, Ga. Structural Engineer: W. H. Armstrong, Macon, Ga. General Contractor: Homer Davis, Ft. Valley, Ga.

Prestressed Concrete Seating Slabs Go Up In 5 Days

Ever watched a circus crew race against time to set up the seats before the ticket window opened? Concrete stadiums go up these days with comparable speed — thanks to prestressed concrete.

While the supporting stringers were being erected on the site, the Macon Prestressed Concrete Company cast and prestressed the special seating slabs for the Anderson Field Stadium, Ft. Valley, Ga. In just 5 days, the slabs were set in place ready to attach seats for 2900 sports fans.

This project is another demonstration of the adaptability of prestressed concrete. Here are a few of the many other prestressed concrete products in wide use: I beams, T purlins, tilt-up and tongue-and-groove siding; channel panels and slabs for floors and roofs; pipe and tanks; fence and lamp posts; highway and airport slabs; bridge and wharf piling; slabs, stringers and girders; complete warehouses, shopping centers, stadiums, gymnasiums, schools and commercial and industrial buildings. Experimental work of utmost promise is now under way on highway slabs.



Easy, fast transportability of prestressed structural members is a big advantage of prestressing. Here the stadium seating slabs are being hoisted from truck to position on the stadium stringers.

the Big Game





Savings in time and labor are pointed up by this view of slab being hoisted into place. No forms to build, no waiting on the weather nor materials in short supply.



Here is a close-up view of the completed stadium, erected in record time to add another laurel to the achievements of prestressed concrete. The strength and resilience of the prestressed seating slabs provides a high safety factor for the combination of load and vibration imposed by excited fans.

"The New Age of Concrete": What Will It Mean to You?

The construction industry has fielded a team that compares in speed with old methods like a 50-yard pass outstrips the slow advance of a ground attack.

The "team" is prestressed concrete construction. And speed is just one of the features that make it today's miracle building material, with a future unlimited.

Reporting on the recent progress in prestressed concrete, the Concrete Industries Year Book, 1957, says:

"In less than a mere half-dozen years prestressed concrete has grown from nothing to a building material which must be reckoned with in all construction in the future."

Here are some of the reasons why the industry has grown at rates of from 200% to 300% per year.

Prestressing increases tensile strength of concrete many fold. Less concrete and less steel are needed. Strength-to-weight ratio is high. Longer spans and thinner sections are possible. Prestressing combines the permanence of concrete with amazing flexibility and elimination of cracking. The savings it makes in time and money mean more profit for suppliers and constructors—greater value for owners and taxpavers.

Prestressing offers you big opportunities whether you use it as an on-site contractor with portable prestressing beds, or become a permanent site fabricator of concrete products of any description. And our own engineers will work closely with you or your consulting engineer on your stress-relieved wire and strand specifications.

Today Union Wire Rope Corporation is supplying the mounting demands for Tufwire high tensile wire and strand with on-schedule speed and dependability. And we're gearing to future needs—with technical know-how, expanding production facilities and research.

Get in touch with us now.



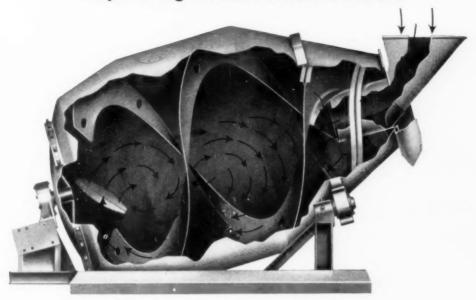
Stress-Relieved Wire and Strand

Prestressed un	ion (00)	Wire Roj	
FREE! Get your	2306 Manchester A Specialists in high car stress-i		
PRESTRESSED CONCRETE	NAME		
ADVANTAGES compiled from	FIRM		
the reports of a panel of Prestress-	ADDRESS		
ing Fabricators.	CITY	ZONE	STATE



For more information use postcard facing page 56.

Why a Jaeger Mixes Better Concrete



- 1: Short drum with correct diameter-to-length ratio.
- 2: Die-shaped continuous spiral mixing blades of 12" minimum depth.
- 3: Exclusive Jaeger "throw back" blades which reverse the mix.

Ever since the famous Hollister tests proved its greater efficiency, the Jaeger truck mixer has adhered to this "Dual Mix" drum. The combination of its three design elements

gives this drum its unequalled end-to-end dual mixing action. It produces higher strength, more uniform and workable concrete, mixes faster and discharges fast and clean.

Jaeger advantages begin with the mix

Now Get These 1958 Features

Latest Improved Discharge Blade Design:

Gives smoothest, most uniform discharge of hardto-control high slump concrete for discharging into wheelbarrows or thin wall forms. Increases the speed of discharge of stiff mixes, as well.

New. Clash-Proof Transmission Shift:

Famous Jaeger single-stick shift in a radically improved, patented design including synchromesh reversing transmission. Provides a positively-guided shift through disengagement, braking and reengagement; prevents any gear-clashing, gives you the fastest, easiest shift of any mixer today.

Lighter, more versatile discharge chute, to 13' length.

Full choice of driving method

 either Continental or Chrysler separate engine or front-of-truck engine pto. Did you ever check a job where several makes of truck mixers were working on the same short haul pour? It's astonishing how much less time, compared with others, the Jaeger needs to "make a mix." You see the same big difference when the drums are reversed to discharge. The Jaeger discharges and is away before any of the others—often by several minutes regardless of whether the material is low or high slump.

Helps produce quality concrete at less cost: For nearly 30 years Jaeger has concentrated on giving ready mixed concrete producers a more efficient mixer. Jaeger's 3-speed transmission provides a range of 1½ to 16 rpm drum speeds, at proper engine speeds, for every condition. End-loader hoppers, drum and blades are all designed for the fastest intake and discharge of any mixer built today.

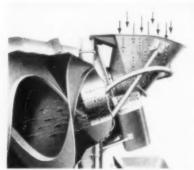
Today's Model "F" Jaeger is lighter, too, mounts to better advantage, costs less than ever to maintain. Let us give you the up-to-date facts. See your Jaeger distributor — or write us for Specification TMS7.

THE JAEGER MACHINE COMPANY 522 Dublin Avenue, Columbus 16, Ohio

Jaeger Machine Company of Canada, Ltd., St. Thomas, Ontario



Westinghouse is Tops in these 3 Essentials...



1-FAST CHARGING



2-DOUBLE-ACTION MIXING

- What you want first in a mixer is one that charges fast, mixes any load thoroughly and discharges well. Here's why Westinghouse will do the job to the satisfaction of you and your customers:
- 1—Charging . . . With extra-large hopper (32" x 34") and cone which shoots material directly to mixing section of drum, you can load as fast as you want, and—without blow-back.
- 2—Mixing...Spiral "L" section mixing blades in drum are equipped with 6 auxiliary blades which produce a criss-cross double mixing action. You get maximum material agitation per drum rpm and uniform mix of any load in less time.
- 3 Discharging . . . Deep blades discharge any load through large 36" drum opening as slowly or fast as you want it, including low slump.

AND—with Westinghouse you get an exclusive, patented, enclosed-gear drum drive and other features at no more than you pay for other quality mixers. See your local Westinghouse Transit Mixer dealer now or write for highly-illustrated catalog to



3-CONTROLLED DISCHARGING



WESTINGHOUSE TRANSIT MIXER DIVISION

Le Tourneau-Westinghouse Company • Indianapolis 6, Indiana

Member Truck Mixer Manufacturers Bureau



Drive which moves the block gently and smoothly — without jarring — at any block machine speed, like all Bergen equipment, is designed to give you better block and higher production. You'll surely want to know all about the new design features of the Bergen Front Pallet Feeder as well as Bergen's High-Production Tri-Matic Block Machine.

or PHONE "COLLECT" NUTLEY (N.J.), 2-7300

BERGEN MANUFACTURES A COMPLETE LINE OF BLOCK PLANT EQUIPMENT

LIGHT-WEIGHT HOIST SKIP-HOIST

MASTER CONTROL PANEL

ZEROMATIC HEIGHT & DENSITY CONTROL MOLD REPAIR TABLE

and a full line of plant maintenance equipment, parts, and repair service.



MACHINE & TOOL CO., INC. NUTLEY, NEW JERSEY

Cable address: "BERGENCO" (Nutley, N. J.)

Plenty of Hot Water

keeps your Redi-Mix plant operating through the winter...and more profitably when using



says ARROW Sand & Gravel Company Columbus, Ohio

The Arrow Sand & Gravel Company discarded clumsy, expensive and inefficient coal-fired equipment used for heating the water needed in replaced it with three Burkay Model 718 units using the existing storage tank. There was a large saving in initial investment over the previous installation. Also, substantial savings in fuel cost . . . in space.



Freezing temperatures need not halt your winter Redi-Mix operation. Not when you can have all the hot water from Burkay water heaters that you want, when you want it, and at any temperature you want so that the concrete can set before it freezes. You can supply builders and contractors through the year on schedule.

Rugged Burkay gas-fired industrial water heaters are the simple answer to mixing concrete dependably during freezing weather. The entire heater operation is automatic. Burkays require minimum care and maintenance. Compact, they fit in any out-of-the-way place. Any number of heaters can be connected up to get the volume and temperature of water you need for your plant. They will more than pay for themselves in reduced year 'round overhead. Call your A. O. Smith distributor for full information and installation details.







Burkay industrial water heaters are of "all copper," corrosion-free construction

• Highly efficient patented burner • Exclusive heat exchanger for maximum heat transfer and economy Dependable • Long Life
 Compact • Operates on
all gases • A.G.A. approved
 Bears the A.S.M.E seal of approval . Completely automatic. Complete range of sizes to fit your needs · Fully guaranteed.



Send for FREE information

A. O. SMITH CORPORATION Permaglas Division, Kankakee, Illinois Dept. C-258 Gentlamea: Please send me full details on Burkay gas-fired industrial water heaters for any Redi-Mix plant.
NameTitle
Company
Address
CityZoneState

makers of famous

Permaglas glass lined water heaters ... Permaglas heating and cooling



USEFUL in almost every type of building, both inside and outside.

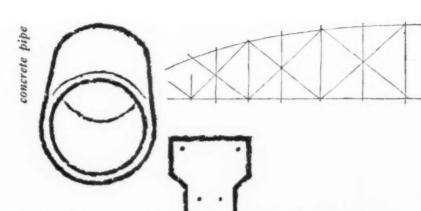
As architectural concrete units or as stucco or cement paint, it emphasizes architectural perspective and detail. It has a high light-reflection which gives beauty and special utility to many interiors.

¶ Trinity White's extra whiteness gives truer colors where pigments are added.

Widely used in terrazzo for its contrast-y white and better color effects in either simple or ornate designs. Meets all Federal and ASTM specifications. Ask for TRINITY White.



A Product of GENERAL PORTLAND CEMENT CO. . Chicago . Dallas . Chattanooga . Tampa . Los Angeles



New Performance Standards

FOR ALL THREE:



SMITH TURBINE-TYPE MIXER

This is the phenomenal new mixer being talked about in dozens of industries—the mixer with an entirely different principle. "LIVE MIX" is the answer.

Mixing is done in a doughnut-shaped drum.

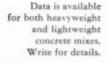
There is no "dead center" area.
Blades set up a braiding action
which breaks down centrifugal forces.
As a result the Smith Turbine-Type Mixer
mixes at a peripheral rate
of six hundred feet per minute!

unbelievably fast

Regardless of your application, you can figure on a practical operating speed several times faster than conventional design mixers.

Besides tremendous speed, the new Smith gives your product a combination of three significant advantages

I. 2. 3. Higher density





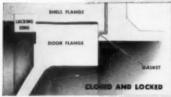
Since 1900, the pioneer designer and foremost manufacturer of the world's finest mixers.

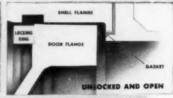
THE T. L. SMITH COMPANY • Milwaukee, Wisconsin • Lufkin, Texas

Affiliated with Essick Manufacturing Company, Los Angeles, Calif.

A8-4043-1P







Locking ring expands into shell flange forcing door flange into compression with resilient lip gasket for pressure or vacuum seal.



ONE FAST, AUTOMATIC ACTION CLOSES AND LOCKS

Simplicity of operation is one of the outstanding features of Ring-Lok Doors, 45 seconds is all it takes to hydraulically open and close a Ring-Lok up to 12' in diameter. Resilient lip-type gasket is used for positive sealing against pressure or vacuum. Applicable to either vertical or horizontal vessels, they can be used with working temperatures up to 400°F and pressures to 350 psi.

Look no further for closures that are low in initial cost, low in maintenance costs and high on performance. You'll find them every time in Struthers Wells Ring-Lok Doors.

STRUTHERS WELLS PRODUCTS

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Crystallizers... Direct Fired Heaters...
Evaporators... Heat Exchangers... Mixing and Blending Units... Quick Opening
Doors... Special Carbon and Alloy Processing Vessels... Synthesis Converters

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Crankshafts . . . P essure Vessels . . . Hydraulic Cylinders . . Shafting . . . Straightening and Back-up Rolls

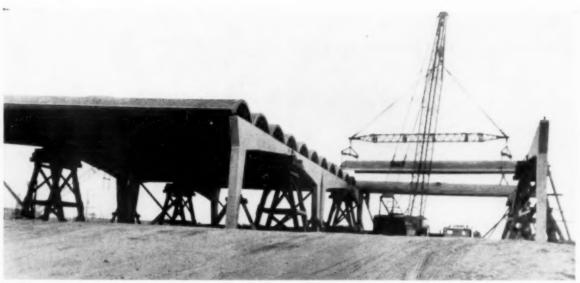
STRUTHERS WELLS Corporation

TITUSVILLE, PA.



Plants at Titusville and Warren, Pa.

Offices in Principal Cities



3 PAIRS OF PRECAST BENTS support roof arches for Westmoor High School gymnasium, Daly City, California. Middle pair divides 104' width of 180' long structure into separate gyms for boys and girls.

Mario Ciampi, architect; Isadore Thompson, structural engineer; Theo. G. Meyer & Sons, general contractor, all are in San Francisco. Kelley Bros., San Jose, erection contractor.

Precast roof arches span 52' without in-place forms

PIONEERING a recent design concept, precast thin-shell concrete arches, spanning 52' between bents, form a low-cost roof for this school gymnasium. The barrel arches, 61' long, including a 9' cantilever overhang, and 15' wide with a 3½' rise, are only 3½" thick. Each of the arches weighs 20 tons.

It took less than an hour for a motor

crane to install each arch on precast 90'span supporting bents. Precasting of bents and roof arches eliminated forming a concrete space frame 22' above floor level which would have more than doubled the cost. A real saving.

In-place structural framing costs (\$1.37 per sq. ft. for roof shells and \$0.81 for bents) averaged out at \$2.18 per sq. ft.

for the 90'x50' column spacing.

Precasting the 24 roof arches was handled nicely by a line of forms which produced 6 arches at a time. Six arches were poured in less than 4 hours using lightweight 3000 psi concrete, properly processed in uniform batches by truck mixers of certified design, capacity, mixing speed and water control accuracy.



TIMBER FALSEWORK TOWERS temporarily supported bents at center of 90' span until entire roof load was applied. There are two rows of 12 arches each in the roof.



You have a right to insist on this Rating Plate. It certifies compliance with the high industry standards maintained for your protection by the Truck Mixer Manufacturers Bureau.

BLAW-KNOX CONSTRUCTION EQUIPMENT DIV.

CHAIN BELT COMPANY
Milwoukee, Wis.
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THE JAEGER MACHINE COMPANY
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Low temperatures bring out the best in COLUMBIA CALCIUM CHLORIDE

This means ready mix now sets faster

Finishers move in and off ahead of schedule, saving costly overtime. That's because Columbia Calcium Chloride used in ready mix produces both initial and final sets a full three times faster! And does it while exceeding the most rigid strength specs. Your customers pull forms days earlier, move on to the next job. Giving them the built-in protection of this chemical that just warms up to cold winter weather is pretty good insurance that their ready mix orders will keep coming to you. And Columbia Calcium Chloride provides no handling problem for you at all . . . adds equally well at your plant or customers' job sites.



Faster early strength (50% greater at 72 hours) lets most skilled trades get to work without delay and resulting overtime.

Units move faster and store better when Columbia Calcium And concrete products set faster, too Chloride is part of the mix. Pre-cast block, panel, or pipe products cure days faster with substantially reduced breakage and chipping. Columbia Calcium Chloride has the unique property of working hardest when the temperature drops to 50° or below. You can safely cut pre-steam holding time, steaming and soaking periods. You'll experience far less cracking during early handling, too. With faster production, you save on inventory, as well. Customers get better concrete products, with deliveries dovetailed more dependably to their construction timetables. It's a great way to build business. Columbia Calcium Chloride works uniformly well in concrete made from normal, air entrained and high early cements.



WRITE TODAY FOR MORE INFORMATION...PLEASE SAY WHETHER INTERESTED IN READY MIX OR CONCRETE PRODUCTS

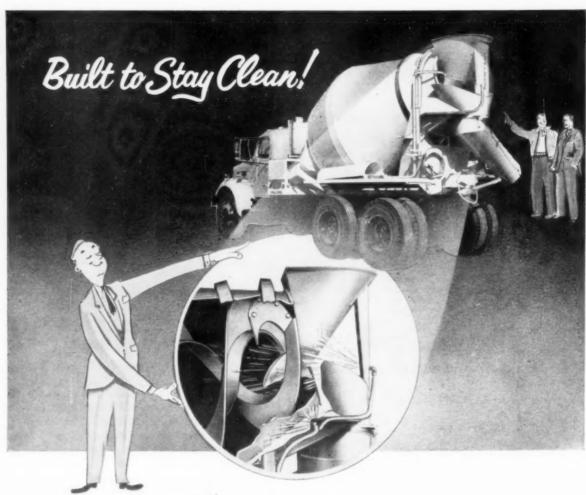
COLUMBIA-SOUTHERN CHEMICAL CORPORATION SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY

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IN CANADA: Standard Chemical Limited and its Commercial Chemicals Division



CHALLENGE Pacemaker TRUCK MIXERS For '58

AUTOMATIC WASH-DOWN SYSTEM,

for those "hard-to-get-to" spots that drivers frequently overlook. Cleans the drum track, rear cone, collecting hopper, and discharge fins. Another exclusive feature of the '58 Pacemaker.

This new, automatic wash-down system shoots a sharp spray of water onto the rear cone section, knocking off all loose concrete. Simply turn a valve handle and the wash-down system does the

rest. Remember, a clean mixer is not only more efficient and renders a more dependable service, but it serves as a good advertisement for your company.

A few of the other 1958 Challenge Pacemaker features include:

- New, Larger Loading Hopper For Faster, Easier Spotting Under The Batch Plant.
- New Collecting Hopper and Splash Curtain For Faster, Cleaner Discharging.
- New Chute Positioner To Hold Chute Firmly In Set Position While Discharging or Cleaning the Chute.
- New "Uni-Lever" one single control to start, stop and reverse the drum; change from one speed range to another and regulate the mixer engine speed.
- New Adjustable "Anti Rattle"
 Tension Bar To Hold Chute
 Firmly In Position While
 Traveling.

action test the Challenge for '58



COOK BROS. EQUIPMENT CO.

Exclusive World-Wide Distributors For Challenge Pacemaker Truck Mixers
3334 SAN FERNANDO ROAD, LOS ANGELES 65 • CLinton 6-3151

FROM THE NEWS DESK

New F.H.A. Directives Should Stimulate Home Buying: End Result Should Be a Need for More Home Building

Some recent steps toward liberalizing home purchases covered by F. H. A. mortgages may prove a boon to the home building market in future months

In effect, the new regulations, announced by Federal Housing Commissioner Norman Mason, will make more applicants—and particularly a number of those who couldn't meet the previous income requirementseligible for mortgages under the Federal Housing Administration. This, in turn, should move more houses into the hands of buvers, with the likely result that still more new houses will have to be built.

Under one of the new recommendations, families with an aftertax income of \$3,000 will be allowed to spend roughly one-third of this amount on housing. Also, one-fifth of the after-tax income in excess of \$3,000 will be allowed for housing.

A further step comes as a new ruling that home buyers no longer will have to pay closing costs in cash. In the past, the requirement that purchasers pay cash on closing costs has had the effect of increasing the necessary down payment and driving

families with limited savings out of the home buying market. Now purchasers can borrow to cover this cost.

Another of Mr. Mason's rulings to field offices covers houses costing \$12,000 or more that include luxury items, such as more expensive wiring and built-in appliances. Prior to this ruling, otherwise-acceptable houses with these more expensive features could be rejected for mortgages.

In still another move, discount limits were increased in areas where mortgage money still is tight. Areas included in this ruling were mainly the western and southwestern states.

Have Copies of Prestress Conference Proceedings

Proceedings of the August, 1957, World Conference on Prestressed Concrete are now available to the concrete industry in printed, bound form at \$10.00 per copy. The book

is over 600 pages long and contains 64 papers presented by representatives from many countries who exchanged knowledge and experience on prestressed concrete.

"Proceedings—World Conference on Prestressed Concrete" is available from World Conference on Pre-stressed Concrete, Inc., Room 216, 417 Market Street, San Francisco, California

Officers, Board Members Elected By Eastern Assn.

Despite the heavy snow of December 5, the Eastern Concrete Products Association met and elected board members at Peacock Gardens Inn, King of Prussia, Pennsylvania.

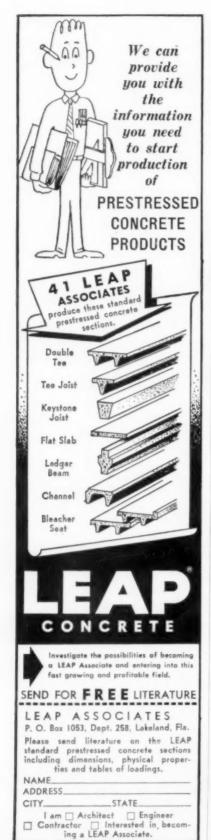
President of the group is H. H. Longenecker. T. K. Nitterhouse was elected vice-president, and John M. Longenecker is secretary-treasurer. Board members H. H. Longenecker, Charles E. Alwine, and H. Melvin Binkley were reelected for threeyear terms.



president of the Texas Concrete Masonry Association, welcomes new members Dick Obetz, Valley Builders Supply, Pharr, Tex., and Thurman Barrett, Jr., Barrett Industries, San Antonio. At right is Harold Dodds, secretary-treasurer and president elect of the group. ABOVE: President Browne (left) presents a check and an award to outstanding archi-tectural student Norman B. Ufer, Texas A. & M. College.



FEBRUARY, 1958



ACPA Will Celebrate 50th Anniversary Next Month

Some 12 past presidents of the American Concrete Pipe Association will take part in the 50th anniversary celebration of the association at the annual convention during the week of March 9, 1958. Meetings will take place in the Roosevelt Hotel, New Orleans, Louisiana.

also a junior member of the American Society of Civil Engineers, a member of the Chicago Chapter of the Illinois Society of Professional Engineers, and has been associated with the Association of American Railroads.

Joins ACPA Staff as Asst. To the Managing Director



Harold W. Stillman, Jr., has joined the staff of the American Concrete Pipe Association as assistant to the managing director, Howard F. Peckworth.

Mr. Stillman is a graduate of the University of Illinois, class of 1950, and is a licensed professional engineer in the State of Illinois. He has been associated with the U.S. Engineer Corps, construction contractors, and has gained a wide experience in civil engineering. Mr. Stillman is

Oklahoma Group Elects Officers at Dec. Meeting

The annual meeting of the Oklahoma Ready-Mixed Concrete Association, Inc., was held at the Oklahoma Club in Oklahoma City on December 6, 1957. Mr. Hugh Hughes, president of the organization, was in charge

New officers of the group, elected at this meeting, are Valdie M. Carr, The Dolese Company, Oklahoma City—president; J. W. McMichael, Jr., McMichael Concrete Co., Tulsa—first vice-president; C. J. Murphy, Murphy & Perkins, Oklahoma City—second vice-president; Fred Hammond, Lawton Transit Mix, Lawton—director; and W. A. Von Unwerth, Ready Mix Concrete Co., Muskogee—director.

Retiring president Hugh Hughes will serve on the board of directors this year.



• Concrete blocks proved a point in a Seattle, Wash., traffic safety promotion stunt December 11. Graystone Concrete Products Company constructed parallel block walls to form the city's "only truly safe crosswalk."

Calendar ...

1958

FEBRUARY 9-12

Mason Contractors Association of America -8th Annual Convention and Show - Sheraton-Park Hotel - Washing ton, D.C

FFRRIIARY 10-14

National Ready-Mixed Concrete Association Convention and Exhibition - 28th Annual Convention — Conrad Hilton Hotel, Coliseum — Chicago, Illinois.

FEBRUARY 10-14

National Sand and Gravel Association — Annual Convention and Exhibi-tion — Conrad Hilton Hotel, Coliseum — Chicago, Illinois.

FEBRUARY 10-14

American Society for Testing Materials -Committee Week — Hotel Statler — St. Louis, Missouri

FEBRUARY 17-19

National Crushed Stone Association — 41st Annual Convention — Conrad Hilton Hotel - Chicago, Illinois.

FERRUARY 17-20

National Concrete Masonry Association - 38th Annual Convention — Sherman Hotel — Chicago, Illinois.

FERRUARY 24-26

National Concrete Products Association of Can-ada — Annual Convention — Seigniory Club — Montebello, Quebec, Canada.

FERRUARY 24-27

American Concrete Institute — 54th Annual Meeting — Morrison Ho-tel — Chicago, Illinois.

FERRHARY 26-28

American Society of Civil Engineers — National Convention — Chicago, Illinois.

MARCH 9-14

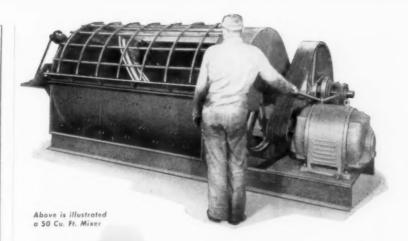
American Concrete Pipe Association - 50th Annual Convention Roosevelt Hotel - New Orleans, Louisiana.

APRIL 11-12

Texas Aggregates Associ-ation and Texas Ready Mixed Concrete Association - 4th Joint Annual Convention — Gunter Hotel — San Antonio, Texas.

MAY 5-10

International Prestressing Federation — 3rd Inter-national Congress — Congress Hall - Berlin, Germany.



Yes, KENT BATCH MIXERS have been thoroughly proved capable of standing up for many years performance proved BATCH

capable of standing up for many years of efficient mixing because of the following features: EFFICIENT DESIGN as to rugged proportioning of parts, heavy construction throughout, high quality motors and bearings, most suitable types of clutches and drives, etc. NI-HARD renewable sectional liners for longest wearing periods yet attained. Abrasive Resistant mixing blades which assure long, efficient service. Adjustable as to position and easily removable. STANDARD MAKES OF MOTORS especially adapted to this type of heavy service. PRECISION CUT GEARS AND PINIONS. OVERSIZE, ANTI-FRICTION **BEARINGS** sealed against grit used throughout. POSITIVE ACTING JAW TYPE CLUTCHES AND SAFETY V-BELTS. SAFETY GUARDS installed wherever required or desired.

AVAILABLE IN SIZES up to

75 Cu. Ft. Capacity.

The KENT

DIVISION OF THE LAMSON & SESSIONS CO. CUYAHOGA FALLS, OHIO CONCRETE PRODUCTS MACHINERY SINCE 1925

KENT ALSO MAKES car unloaders, skip hoists, cement elevators and other machines. Engineering counsel as to planning or remodeling plants is available without cost or obligation.

> **ENJOY OUR HOSPITALITY** Feb. 16th, 17th, 18th, 19th - HOTEL SHERMAN

VIBRATING

Designed and engineered for concrete products manufacturing





Our business is solving your vibration problems. Write for complete engineering data and literature.



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Construction Forecast, Even Higher Dollar

Construction activity in 1957 broke dollar volume records for the 12th consecutive year, reaching a grand total of more than \$65 billion, and a potential market of up to \$68 billion exists for 1958, to be sparked by rising highway construction and a recovery in residential activity.

The 1957 total of approximately \$65.2 billion performed in the continental United States consisted of \$47.2 billion in new construction and about \$18 billion in maintenance and repairs, for an increase of 3 per cent over the \$63.1 billion total estimated to have been put in place during 1956.

In reaching the 1957 total, construction maintained its postwar role as the nation's largest single production activity, representing 15 per cent of the gross national product and accounting directly and indirectly for more than 15 per cent of the country's gainful employment.

The Associated General Contractors of America divided its estimate of potential 1958 volume into \$49 billion for new construction and \$19 billion in maintenance and repair operations. The total, featured by a spurt in highway work, a slight increase in residential, a continuing high volume in all private nonresidential activity except industrial, and mounting state and local public works, would represent a 4 per cent increase over the 1957 figure.

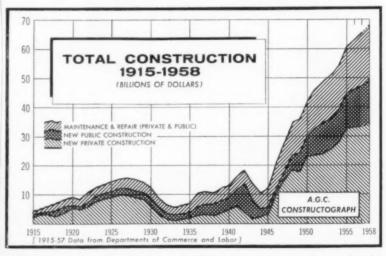
Such a performance, if realized, is seen as a major stabilizer in the economy while adjustments are made in other business lines, as in the general business slowdowns of 1949 and 1954.

Basic Assumptions Cited

The outlook for \$68 billion in total construction this year is based on the following assumptions:

That plant and equipment expenditures by business will not drop more than 10 per cent, as early estimates indicate; that any general business decline will be mild and of short duration and that credit conditions will improve.

It also was based on assumptions



 Postwar construction has been rapid in its growth to make up for the reduced volume of the depression and war years.

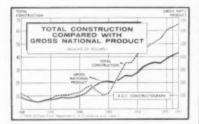
1958: Volume

of a tendency of construction costs to stabilize or rise more slowly; of plentiful materials, especially structural steel; no prolonged major work stoppages; no curtailment of federal construction programs; and that worsening international conditions will not seriously affect construction in the continental United States.

Review of 1957 Construction

Construction volume in 1957 continued along the high plateau of 1956 upon which it was thrust by the spectacular activity of 1955. While new dollar volume increased a modest 2 per cent over that of 1956, the rise again was more than offset by an increase in construction costs.

The year's construction activity was featured by new peaks in private



• Construction's share is at 15%.

industrial and public utility facilities, stabilized commercial construction at a high level, a strong volume of state and local public works, and a continued decline in private residential activity which showed indications of a recovery by the end of the year.

The summer cement strike, while seriously delaying many projects in the Eastern and Gulf Coast states, had little effect on the over-all construction picture. The long-range highway program slowly gained momentum as many states concentrated on the necessary planning, engineering, and right-of-way acquisition, and by year's end was poised for the first big spurt of actual construction under the impetus of the Fed-



BUCYRUS-ERIE ANNOUNCES New, Improved 12-ton H-5 Hydrocrane with 90 Hydraulic Horsepower

Now, the capacity of the H-5 Hydrocrane is boosted to 12 tons. And an extra complete hydraulic circuit provides faster speeds and better coordination of all crane movements.

In addition, the H-5 has many outstanding new features that put it farther ahead of ordinary truck cranes. Check these new advances and see why the new H-5 can make more money for you.

Crane Capacity Increased to 12 Tons One-third more useable horsepower is now provided. More powerful boom hoist, stronger outrigger boxes and high alloy steel in hoist standards help raise crane capacity.

Three Separate Hydraulic Circuits Develop Powerful Precision Control Three independent circuits, each supplied by a separate pump, let you coordinate crane movements faster . . . and still maintain precision control. Pump drive is now enclosed and runs in oil for longer life. No maintenance or adjustment of V-belts required.

Selector Valves Increase and Concentrate Speed and Power Speed of any movement can be doubled while safely controlling other motions. You can direct flow of oil to where it is needed for added speed. Each circuit contains its own improved relief valve.

New 12-Volt System Assures Starts in Severe Weather Modern 12-volt electrical system is used to start independent power plant for quick starts in all climates.

These new, improved machines retain all the outstanding features of their popular forerunners...low-cost truck mounting (new or used), hydraulic telescoping boom, short tail swing, patented outriggers, open road speeds up to 50 mph. Three-piece boom extends to 50 feet, retracts to 26 feet to provide less than 35 feet overall length of truck for travel. See your Bucyrus-Erie Hydrocrane distributor for the whole story on why the new H-5 Hydrocrane boosts your profits.

A Familiar Sign . . . BUCYRUS . . at Scenes of Progress

BUCYRUS-ERIE COMPANY . SOUTH MILWAUKEE, WISCONSIN

odson's



A concrete idea for winter

Stopped by to see George Thomas the other afternoon. George is a contractor, who started in business about two mouths ago. His dad is one of my best friends.

"Hi, George! How's business?" I greeted him.

"I've got beginner's luck, Dod," he replied, dejectedly. "It's all bad!" "Sometimes it only seems bad," I pointed out, "What's the trouble?" "First off," he began, "I regard dad

as a pretty good weather prophet - his rheumatism, you know. I landed a job for the streets and sidewalks in a 120house subdivision. Dad had predicted warm weather, so I ordered the readymix and promised .

"Wait a minute!" I interrupted, astonished. "Don't tell me your jobs are being scheduled according to your dad's rheumatism!

"Oh, no!" he laughed. "I always check with the weather bureau, too. But," he said, getting serious, "this

sudden cold snap is going to ruin me!"
"Well, weather doesn't have to be your enemy, George, Ever heard of Calcium Chloride?" I asked.

"Sure, Dod, but expenses are too high as it is," he insisted.

gh as it is, he massed.
"Calcium Chloride will save you
"Calcium Chloride will save your
"I emphasized. "Ask your money!" I emphasized. "Ask your ready-mix supplier to add two pounds per bag of cement and you'll reduce your set time by two-thirds. Gives you higher early strength and increased workability. You'll be prepared for the cold and you can .

"Maybe you're right, Dod," he broke in. "I just hadn't looked at it as a cost-cutter. I'll call the ready-mix plant tomorrow.

"Better call them right away." I warned him. "There's about six inches of snow due tonight."

"That's funny," George remarked.
"Ididn't read anything about it. Where'd
you hear that?" he asked, puzzled.
"Farmer's Almanac," I grinned.
"Very reliable." — L. D. Dopsoy

-L. D. Dodson

P.S. - Don't gamble with concrete. Get the facts on what Wyandotte Calcium ride can do for you in our folder. "How To Make Better Concrete Products and Ready-Mix." For your free copy, just drop me a line. Wyandotte Chemicals Corpo-ration, Wyandotte, Michigan. Offices in principal cities.

Wyandotte



MICHIGAN ALKALI DIVISION HEADQUARTERS FOR CALCIUM CHLORIDE

Construction Forecast

(Article begins Page 22)

eral-Aid Highway Act of 1956.

Construction is estimated to have provided, directly and indirectly, employment for about 10.5 million persons in 1957, or more than 15 per cent of the nation's total gainfully employed. Of these, more than 5 million were employed directly in construction operations, with the remainder engaged in activities servicing construction in the fields of distribution, transportation and manufacturing.

Major Categories, 1957

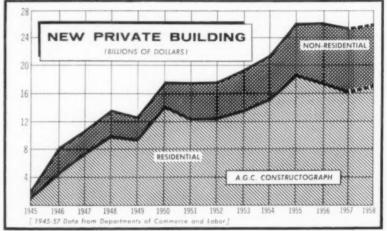
The 1957 new construction volume of \$47.2 billion was characterized by slowing activity in private construc-tion, totaling \$33.3 billion and a rise of 8 per cent in public construction to \$13.9 billion.

Business construction hit another new peak, propelled by the tremendous upsurge in plant and equipment expenditures that carried over from the unusual rise of 1956. Industrial building reached \$3.2 billion, about 3 per cent above 1956, but a decline was noted toward the end of the year as many of the large projects which had been under way reached completion.

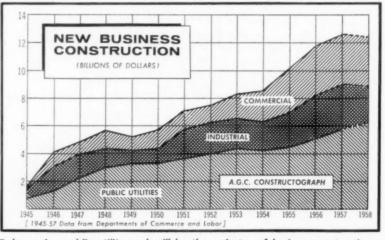
The commercial category leveled off at its high level of 3.6 billion as many large shopping centers reached the final stages of completion. However, a decline in the retail sector was offset by a healthy increase in the construction of office buildings and warehouses.

Privately owned public utilities the mainstay of business construction during the postwar years - continued a steady rise to \$5.8 billion, a 14 per cent increase over 1956. sparked by booming gas and electric light and power activity.

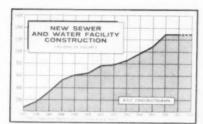
Religious construction continued



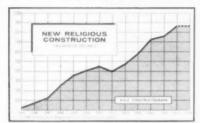
As credit loosens, residential construction may offset nonresidential slack.



Increasing public utility work will be the mainstay of business construction.



· Activity not keeping up with need.



· Church boom may hold high level.

its boom with a 13 per cent increase to \$870 million, while private hospital and institutional facilities jumped more than 50 per cent to a volume of half a billion dollars.

The volume of private residential units placed under construction dropped below 1.000,000 for the first time in eight years, influenced by higher interest rates and the competition for financing in many sectors of the economy.

Local Public Works Dominate

The dramatic rise of state and local public works continued in 1957 with these types increasing their dominance in the public field for the sixth successive year, amounting to approximately three-quarters of the \$13.9 billion public total.

Highway construction, whose pace had been overestimated in some quarters, increased 8 per cent to \$4.8 billion as states readied themselves for a steadily rising volume of work under the new highway program. (The government, on the basis of new information, substantially lowered its estimates of highway construction put in place during the past three years. Volume reached only \$4.5 in 1956, compared with the previous estimate of \$5.1 billion, and the 1955 figure was reduced by \$500 million.)

Public educational construction continued to increase under the pressure of population growth and underbuilding in prewar and war years, with an 11 per cent rise to \$2.8 billion. An estimated 69,200 new public school classrooms were provided in the 1956-57 school year.

Sewerage and water facilities

THE FIRST NAME YOU THINK OF for Profitable Septic Tank Equipment



This is the tested-and-proven method that insures fast, economical production of quality tanks in 500, 600, 750 and 1000 gallon capacities.

Well-reinforced, precision-built form pours and strips upright. Light-weight — requires minimum time for stripping and setting up. Form includes: Pouring pan, three section septic tank lid pans and pick up bar for handling.

THIS FORM PRODUCES THIS TANK

All sections assembled with wedge bolts. Hoist descends into tank—no need for high rig.

NO ROYALTY ON SMITH STEEL SEPTIC TANK FORMS OR TRUCK HANDLING RIG.

SMITH truck rig is built for long, continuous service. One man operated. Can handle 3 tanks at one load.

Write or wire for specifications and prices.



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PRASCHAK

50 CU. FT.

AMERICA'S POPULAR MIXER



ALL SIZES AVAILABLE FROM STOCK, COMPLETE WITH MOTOR, MOTOR MOUNT, AND DRIVE.

Write for information on our MIXER SPECIAL — the Praschak 75 cu. ft.

16 cu. ft. . . . \$ 990.00 21 cu. ft. . . . \$1115.00 30 cu. ft. . . . \$1480.00

50 cu. ft. . . . \$2775.00

-PRICE LESS MOTOR-

PRASCHAK MACHINE CO. MARSHFIELD, WIS.

Construction Forecast

(Article begins Page 22)

reached a peak of \$1.3 billion for a 5 per cent increase, and moderate increases were registered in hospital and institutional, and administrative and service buildings.

In the federal field, the lone major decline was a 9 per cent decrease in military construction, to about \$1.3 billion, while conservation and development increased more than expected to nearly \$1 billion.

While the outlook is for an increased total volume, the A. G. C's.

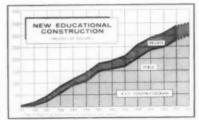
estimate of \$49 billion for new construction is somewhat more conservative than the government's with a smaller increase expected in housing, and virtually no increase anticipated in the commercial field.

The Outlook for 1958

Volume is expected to be sparked by an increase in state and local public works — principally a spurt in highway construction — and a slight recovery in residential activity.

On the basis that capital outlay by business will slide from the alltime peak of over \$37 billion in 1957 to about \$35 billion in 1958, the major business categories of construction may total slightly under \$12.5 billion.

The capital outlay decline is expected to be reflected mostly in a decrease of 9 to 10 per cent in industrial construction, centered principally in manufacturing companies, for a total of about \$2.9 billion. This may be offset by a \$6 billion volume in public utilities.



Pressure for more schools continues.

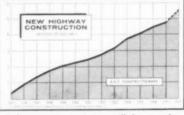
Commercial construction, which may see a decline in large shopping centers, which have followed the housing boom, should be stabilized at a total of \$3.6 billion by increasing construction of office buildings and warehouses.

The high levels of activity in the minor private nonresidential categories of churches, educational, social and recreational facilities are expected to be maintained, while a moderate increase is anticipated for hospital and institutional building.

Public Construction

An 8 per cent increase in public construction to more than \$15 billion should result from:

 The first big rise in highway construction under the long-range



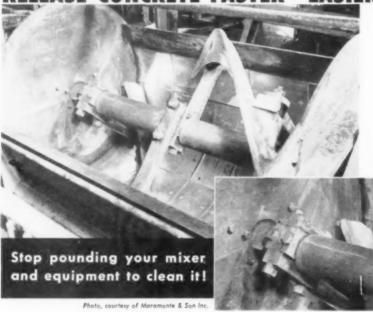
• Interstate projects will be ready.

program. The big backlog of projects either ready to let to contract, or in an advanced stage of planning, indicates a possible 15 per cent increase in total highway and street construction to about \$5.6 billion.

A continuing increase in public educational facilities, rising 6 per cent to \$3 billion, with prospects that more than 73,000 public school

(Continued on Page 40)

RELEASE CONCRETE FASTER · EASIER



USE EDI-COTE NO. 103

This 4 year old mixer has never been touched with a hammer of any kind! Air guns and sledges are not allowed—yet it's as spanking clean as the day it was installed! Edi-Cote #103 has helped keep this mixer in top shape with minimum effort!

New formula Edi-Cote #103 (an improved version of the original and still largest selling release agent) forms a bond-resistant film on exposed surfaces. Concrete can't stick.

Clean up time is more than cut in half—and productive hours increased.

A stiff brush and putty knife is all that is required

to clean—as concrete cannot harden to metal protected with Edi-Cote #103.

Edi-Cote #103 won't stain and discolor first batch as will drain oil—or weaken the concrete as will soluble oils!

One application lasts all day! It pays to use the new Edi-Cote #103!

We guarantee—that if you use Edi-Cote #103 30 days as directed, and you are not satisfied we will refund your money in full and pay you 6% interest, plus all freight costs!

MANUFACTURED AND DISTRIBUTED BY

ORDER
EDI-COTE NO. 103
TODAY •
PROVE IT TO YOURSELF!



427 W. National Avenue, Milwaukee 4, Wisconsin

PLANT NOTES

Western Block Company, Coquille, Oregon, has completed a \$110,000 plant expansion which included the installation of new, fully automatic equipment. The plant now has a production capacity of 6000 block per day.

Coos Bay Dredging Company's ready mixed plants at Coos Bay and North Bend, Oregon, were recently purchased by the Umpqua Navigation Company at Reedsport, Oregon. Both plants will be operated by Rogers & Kuni, a North Bend firm which already produces ready mixed concrete.

Fort Miller Company at Fort Miller, New York, was damaged to the extent of \$75,000 by a fire on December 30. The plant makes septic tanks, burial vaults, and pre-cast steps.

Arkansas Structural Products Company is constructing a plant at Conway, Arkansas, which will manufacture precast concrete building materials. The plant is to be opened this month.

Fireproof Block & Builders Supply Co., Columbus, Ohio, has completed construction of its second plant in the city. The new facility includes a roof over the ½-acre storage yard. The company manufactures modular concrete building block, for which the roof will serve as a protection against snow.

Anchor Concrete Products, Inc., of Buffalo, New York, has purchased the Haydite operations of the John H. Black Co., Jewettville, N.Y. These facilities will be expanded by Anchor Concrete, and is expected to be known as the Haydite Division of Anchor Concrete.

Salina Concrete Products Com-Pany, Salina, Kansas, is installing electronic equipment and a new ready mixed concrete plant. It is expected that this modernization will triple the company's productive capacity to 150 cubic yards of concrete per hour. COPPCO INCORPORATED, has started construction of a \$250,000 plant at Littleton, Colorado, for the manufacture of concrete pipe.

Precasto Manufacturing Company at Denver, Colorado, was opened recently to manufacture precast concrete products.

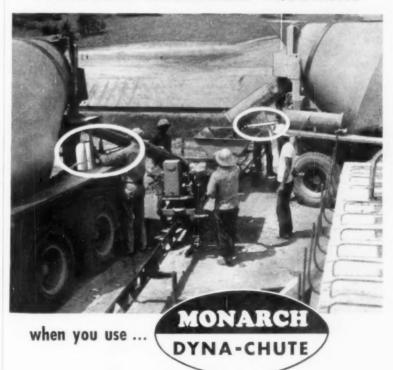
Bay Concrete Industries, Inc., is constructing a \$250,000 ready mixed plant at Tampa, Florida. When it begins operating sometime this month it is expected to produce 1.000 cubic yards of ready mixed concrete daily.

Goff-Kirby Co., Cleveland, Ohio, ready mixed supplier, is doing business from a new building, which includes office space and a research laboratory, at 1200 W. 3rd St., Cleveland

HOLLOWAY READY MIX Co. No. 2 Inc., was granted a permit to construct a ready mixed concrete batching plant at Lexington, Kentucky.

JOHNSON CONCRETE PRODUCTS Co. was recently incorporated at Hastings, Nebraska. The company will manufacture concrete casings, pipe and culverts.

CONCRETE DELIVERIES ARE PACED TO MODERN MECHANIZED EQUIPMENT



POWER HYDRAULIC CONTROLS

Insist on the automatic operation of the discharge chute on your ready-mix trucks . . . just flick the control handle, and the chute is raised, held or lowered. Save time and keep deliveries on schedule with the DYNA-CHUTE. It's easy to install and simple to operate. All necessary parts are included to fit standard makes of mixers. See your dealer or write for full details.

MONARCH ROAD MACHINERY COMPANY

1331 MICHIGAN ST., N. E. - GRAND RAPIDS 3, MICHIGAN

Officers and Directors Elected by Detroit Board



D. ROSSI

The Concrete Improvement Board of Detroit, a non-profit organization whose members are in industries and professions engaged in concrete construction, has elected new officers and

directors for 1958.

Dominic Rossi, of Darin & Armstrong, Inc., is the new president of the organization. His fellow officers are Donald Ziegler, Cooper Supply Co., as secretary, and Thomas Burke, C. J. Burke Co., as treasurer.

The directors are as follows: for aggregate producers-Larry Clark. American Aggregates Corp.; for Transit Mix Institute-Jim Curry, Frank J. Knight Co.; for American Concrete Institute—Paul Barton, Barton-Malow Co.: for admixture manufacturers-William Young, Sika Chemical Co.; for engineers not in government-Paul Rice, American Concrete Institute; for paving contractors-John Morrow, Thomas E. Currie Co.; for engineers in government-Bernard Ross, Wayne County Road Commission; for portland cement manufacturers-Jack Irmscher. Peerless Cement Corp.; for concrete products industry-Floyd Nixon, Haycon Tile Co.; for American Institute of Architects- O. R. Ballucci, Giffels & Rossetti, Inc.; for Associated General Contractors-John Strang, Pulte-Strang Co.; and for residential construction industry-David Holtzman, Holtzman and Silverman.

Prepares Evaluator Kit For Urban Renewal Study

The American Council To Improve Our Neighborhoods, better known as ACTION, has prepared an Evaluator kit as an aid to business men in gathering and analyzing local urban renewal information affecting business in communities in which they operate or plan to locate.

Included in the kit is a 28-page guide which, along with other sources of information in the kit, provide aid and data on urban renewal. The kit was developed in response to requests for information received from business leaders in the last eight months.

Roy W. Johnson, vice-president of General Electric Company and president of ACTION, states that the group is offering the complete copyrighted Evaluator kit at \$10.00 per copy. Arrangements can be made for assistance in undertaking local studies. Information is available from American Council To Improve Our Neighborhoods, Inc., 2 West 46th Street, New York, New York.

Other Unions May Bargain For Profit-Sharing Plan

Walter Reuther's share-the-profits proposal, adopted by the United Auto Workers Union as one of its bargaining platforms this summer, could very well set a pattern for future bargaining requests by other unions.

Very possibly, at some near-future, contract-negotiation session between producers in the concrete products or ready mixed concrete industries, a similar plan could be a part of the employees' demands.

The main portion of Mr. Reuther's plan is that auto company employees share one fourth of the company's before-tax earnings exceeding 10 per cent of net capital. Union contracts with the three major auto-producing firms expire at the end of May, this year.



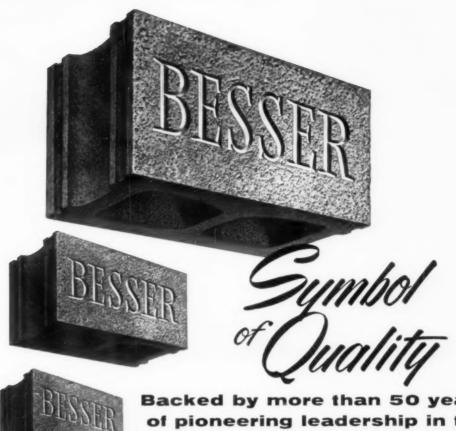
• After display at the National Ready Mixed Concrete show, this allaluminum Transcrete truck mixer will be tested for durability for several months. The machine was built as an experiment by Construction Machinery Company, Waterloo, Iowa.

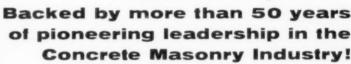
New Jersey Concrete Assn. Reelects R. Booth President

Richard W. Booth, head of the testing division of the Essex County, New Jersey, Highway Department, has been reelected president of the New Jersey Concrete Association.



 Retarded children who formerly had no transportation to the Sun Dial School, Fort Lauderdale, Fla., now ride to school in a 1958 Chevrolet station wagon. It was a Christmas donation of Ready Mix Concrete Co. in the name of its customers.





· When you think of concrete block machinery, you invariably think of BESSER. For more than a half century, BESSER Company has been intimately associated with the Concrete Masonry Industry . . . designing and perfecting better block machines . . . improving plant production methods . . . creating new and more attractive block designs . . . and, in general, raising the standards of the entire Industry.

Today, BESSER is universally regarded as the leader in its field and a big factor in expanding the Concrete Masonry Industry into a profitable, world-wide enterprise. If you are interested in high-quality block production, consult BESSER. Ask for literature and the name of your nearest BESSER representative.

ALASKA, ARGENTINA. AUSTRALIA, CANADA, CZECHOSLOVAKIA, DOMINICAN REPUBLIC, ENGLAND, FRANCE, HAWAIIAN ISLANDS,

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Dept. 127, Alpena, Mich., U.S. First in Concrete **Block Machines**

· BESSER VIBRAPAC BESSER VIBRAP world famous concrebock machine—a profitmaker for block plants. everywhere. Produces ALL types and sizes of block on ONE set of Plain Pallets. Fully automatic. Capacity up to 10,000 units (8" or equivalent) per day.



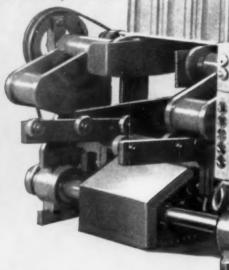
BESSER

World Famous Concrete Block Machine

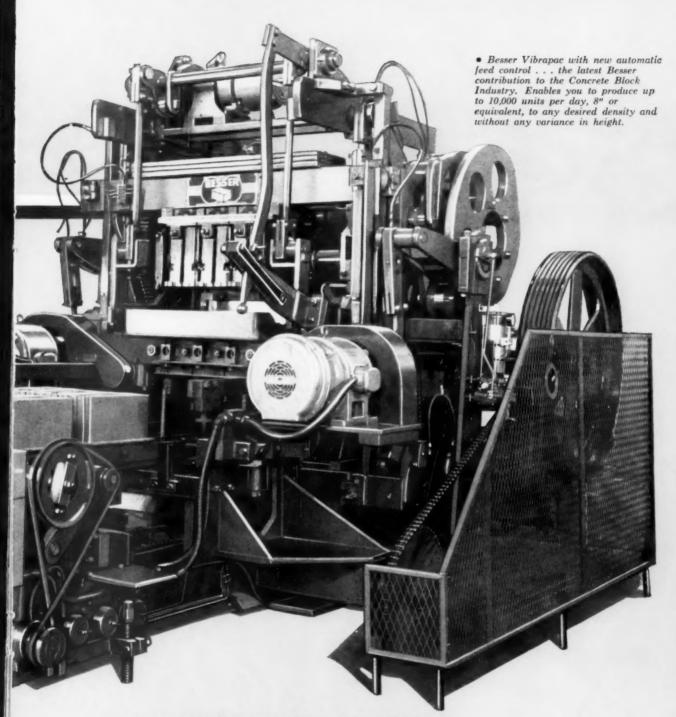
The Besser Vibrapac is the culmination of more than a half century of engineering and production "know-how." Highly regarded throughout the Industry, this dependable machine supplies blockmakers with a completely engineered system of producing building units by AUTOMATION * * The Automatic Feed Control produces block of uniform quality and density * * Automatic Height Control accurately regulates the height of the block * * The new Besser UPT (Uni-Pressed Top) eliminates ALL core plate marks * * The exclusive Besser-Matic loads green block and unloads cured block, automatically * * The Besser system of Automatic Lubrication means that all moving parts of the Vibrapac are lubricated while the machine is in operation * * * Besser leadership in pioneering new concrete block machines and improving plant production methods has just naturally won for the company the No. 1 position in the Industry.

- 15t to produce all types and sixes of block on one set of Plain Pallets, instead of using numerous cored pallets.
- 1St to apply the cam roller system of power application, thereby delivering power with pin point precision and with steady uninterrupted regularity.
- 1St to offer service in furnishing suggested plans for most economical and efficient plant layout.
- 1st to offer new block designs to architects and builders for above grade construction.
- 1St to develop and build a Power Off-Bearing Hoist to eliminate block lifting by hand.
- 1St to introduce Cubing for fast lift truck transportation and fast truck loading.
- 1st to use two 10 h.p., high starting torque motors, for maximum vibration force to obtain dense weathertight block.
- 1st to produce batter block for manholes, on production basis, with same speed as conventional block.

- 1st to introduce Automatic Lubrication, thereby permitting Vibrapac to lubricate itself at regular intervals, while it is running. Saves labor, parts and maintenance.
- 1st to use 2000 pounds pressure on block during finish vibration.
- 1St in the industry to erect concrete masonry exhibits at Architects' Samples Corporation, New York and National Housing Center, Washington, D.C.
- 1St block machinery manufacturer to advertise block in architectural and building publications including Sweets Architectural File.
- 1st to sponsor a school for block makers and block users, with competent instructors and established curriculum.
- 1 St to offer a Materials, Methods, Research & Testing Service to solve mixing and proportioning problems.
- 1St to produce a building block with U.P.T. (Uni-Pressed Top) so block has no machine marks whatsoever.



- 1st to introduce Automatic Feed Control as a dependable and visible means of maintaining the quality of the block and to eliminate guess work in feeding.
- 1st to introduce Automatic Synchronized Block Handling for both the loading of green block on rack and the unloading of cured block off rack, thereby eliminating one man for Off-bearing and one man at Cubing Station.



THE CHOICE OF LEADING BLOCK MAKERS-EVERYWHERE!

Today's Front Pallet Feed Vibrapac forms the heart of the modern concrete block plant. It produces premium block on a fast, continuous production basis, and, in a large measure, accounts for the phenominal growth of the Concrete Masonry Industry.

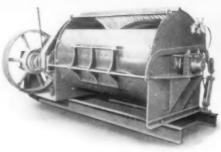




Alpena, Michigan, U.S.A.

First in Concrete Block Machines





BESSER Batch Mixer

Quick-charging and self-discharging Twin spiral blades for fast, thorough uniform mixing. Blades and liners made of NI-HARD abrasion resisting iron. Steel grid sofety guard. Roller bearings. Full range of sizes available.

BLOCK PLANT

EQUIPMENT

...designed and perfected by

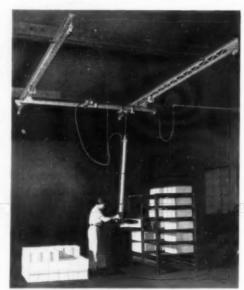
the makers of the world famous VIBRAPAC

BESSER Bridge Crane Block Cuber

Eliminates lifting block by hand.
Pneumatic clamp and hoist
remove three 8" block (or
equivalent) from rack to cube.
Fork lift truck transports
cube to yard. Permits neat
stock piling. Simplifies
inventory count. Conserves
yard space.

BESSER Brickveyor

Two varying speed belts automatically tip brick from a vertical to a horizontal positioning. Adjustable, inclined gravity roller conveyor accumulates rows of brick for power brick clamp cubing. Capacity: up to 60,000 brick per day.



BESSER Pallet Cleaning

Machine — Fully automatic, noiseless, dustless, portable. Cleans paliets without warping or

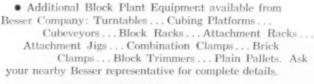
nicking. Capacity: 300 pallets per hour.

BESSER Block Splitter

Smooth, fast, automatic operation. Splits block in a straight line. Easily adjustable for various block heights. Quiet

block heights. Quiet, safe operation. Capacity: 960 split block per hour.





BESSER Company

Alpena, Michigan, U.S.A.

First in Concrete Block Machines

THE EDITOR'S PAGE

DOUGLAS LEE

The Challenge of 196X!

The January issue of the magazine *House & Home* predicts a technical revolution in the home building industry within eight to ten years. The revolution will come, says the magazine, "just on the eve of a crisis in home building, the like of which we have never had to face."

The crisis? "By the mid-1960's the World War II babies will be getting married, and as a result this country will need nearly 2 million more dwellings each year than it had before. (In 1950, the record year for home building, 1.35 million new homes were built in this country.) And right at the same time the 25-45 age group, which provides most of the work force, will be smaller than it is now. There will be a shortage of land to build on, a shortage of traditional materials to build with, and a shortage of cash to pay the bills."

Technology will come to the rescue, says *House & Home*. "Just as our material needs are about to double, technology is starting to produce a flood of brand new building materials; just as our labor force is about to prove quite inadequate, technology is offering us a whole set of brand new building methods, methods requiring much less labor, permitting much greater mechanization. The year of the big breakthrough is 196X. The year to prepare for it is 1958."

Basic features of the 196X house are that it will be built of laminated sandwich panels incorporating structure, insulation, interior and exterior finish in one factory-made unit, that it will be assembled without nails or screws, that it will be easy to take apart for relocation when desired, and that it will look very different.

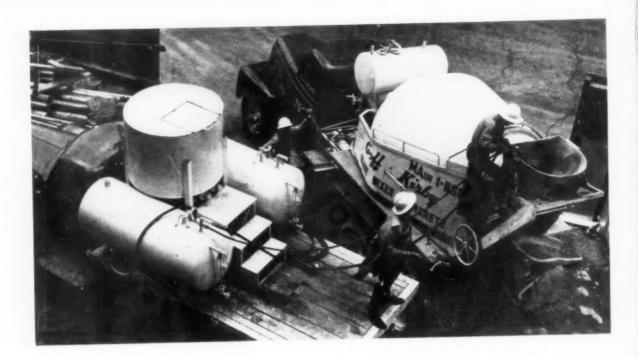
What about traditional trades and skills? "The fact is," says *House* & *Home*, "that the house of 196X will still use plenty of brick, block and stone because, after all, man can not live by polyethylene alone."

Well, there certainly can be no question about the population statistics and the impact they will have not only on the home building industry, but on the commercial and industrial building market as well. Estimates are that our population, now approximately 170 million, will increase another 30 million in the next ten to fifteen years.

Our concern is not for 196X, because the unprecedented demand will tax the facilities of all building materials producers, old and new alike. There is, however, a real long-range threat to traditional building materials that the pressures of this oncoming demand for structures of all kinds will pose, despite *House & Home's* disarming comment that "man can not live by polyethylene alone." The steel industry and the aluminum industry are getting into high gear for 196X too. And all of this new competition is focusing public attention on getting more building up per man-hour of labor.

When we remember that the postwar demand was really what catapulted the concrete industries into their dominant position in the building materials field, we must consider the long-range effects on our industries that even a modest entrenchment of new competitive materials in the years just ahead could mean. Miracle materials and miracle methods never get established over night. Many fall by the wayside quickly of their own ineffectiveness. The better ones eventually capture and hold a share of the market.

Every man in our industries with the ability to think clearly and constructively of the future, as well as the present, owes it to himself and to our industries as a whole to think and act, individually and in cooperation with others, about the problem of holding the ground gained and moving ahead to an increasingly dominant position for our products in the construction industry.



Goff-Kirby Produces Foam

By R. J. Crouse Pittsburgh Testing Laboratory

ONCRETE, weighing an avercubic foot instead of the usual one hundred and fifty pounds or so, is being used in one of Cleveland's newest buildings, the Cleveland Electric Illuminating Building. Its secret, entrapped air; its purpose, floor fill and duct covering; its value, placeability, insulation and, principally, a savings of 1600 tons dead load on the building. In use, the foam 'crete is sandwiched between the structural slab and the floor topping.

The structural slab is a conventional strength concrete of reinforced concrete over which are laid miles of electrical duct work, each one inch deep, six inches wide, and four abreast. Other groups of ducts are laid on top of these and at right angles to them, creating an interesting geometric pattern and also creating a problem in covering. Over these miles of electrical ducts is placed the light weight cellular floor fill, called foam concrete by its maker, the Goff-Kirby Company. This

foam 'crete, which is actually poured into place, has an average compressive strength of 750 PSI, and after three days of curing provides an excellent base for a conventional floor topping. According to the officials of the Goff-Kirby Company, this is the first application of cellular concrete or foam concrete in the Northern Ohio area.

The foaming agent in the concrete is practically the same as that used in fire equipment, and was discovered by Danish scientists who learned that hydrolyzed protein, free from starches and sugar, could do tricks when mixed with water and air.

Here in this country it is made from fish scales, as well as packing house waste such as hooves, horns and hair. The protein is delivered in drums and is a viscous brackish liquid, but when placed under an air pressure of ninety pounds it foams to twenty times its original volume, and emerges looking like high grade whipped cream. Fed into a transit mix truck at this stage of the job. it has the ability to more than double the concrete volume, even though the truck mixer may be agitating its load, which, of course, tends to reduce the air. In the foam, each little bubble of air is surrounded by this tough protein membrane, making it possible to retain the air throughout the mixing and all the handling operations. Since the protein is limited as to the length of time it will retain the air, the foam is added to the truck mixer at the job site, and the concrete is placed, all within an hour. To further insure a high volume of air, high early cement is used to hasten the setting of the foam 'crete.

During the pouring operation, the foam 'crete has a consistency of heavy cream. It oozes its way around the ducts and under them, and finally is broomed into place for a total depth of three and a half inches. With the high early cement in the mix, it sets quickly and, in a week's time, averages 450 PSI. At the time



Foam, under 90 pounds of air pressure, flows into the charging end of a Goff-Kirby ready mixed truck. Addition of foam more than doubles the volume of concrete and reduces its weight from 150 pounds per cubic foot to roughly 75 pounds per cubic foot.



Concrete

Foam, as it's added to concrete, has a consistency of heavy cream.

of pouring it has a wet density of about seventy-five pounds per cubic foot, or fourteen and three quarter pounds per standard 6 x 12 test specimen. On drying, it loses about four pounds, averaging then seventy-one pounds per cubic foot. After drying and setting, a block of foam concrete resembles a cellulose sponge of the type which is obtainable at most grocery stores, and, truly, it doesn't seem one bit heavier than sponge.

Research into the proper formula for the foam 'crete started almost a year ago. Goff-Kirby's engineer, Jack Mueller, tried dozens of mixes, using varying proportions of cement, sand, foam and additives. In reviewing laboratory records covering some 140 cylinders, representing the various mixes, little notations can be seen, such as "too fragile to test," "wet density 42 lbs. per cu. ft." or "wet density 30 lbs. per cu. ft."

It was soon learned that capping, curing and testing the cylinders was (Continued on Page 37)



• Foam concrete from buggy is poured over rows of conduits. Material in foreground already has been broomed into place.



They Precast Concrete Docks That Float

C ertain lightweight concrete mixtures come fairly close to being light enough to float in water — in fact some mixtures (in solid form) will float. It's simply a matter of weight. If the weight of the concrete is less than the weight of an equal volume of water, then it will float.

And if concrete floats, or can be made in a form that will float, what would be the next logical question or two? . . . what has to float? . . . a boat? . . . a pier? . . . a dock? And after you've asked what should float, you ask how can concrete be adapted to this particular use,

Fibrecrete Corp., Long Beach, Calif., answered these questions by designing and building hollow, floating, precast concrete docking assemblies for small boats.

Normally wood or steel is used in the construction of rafts and small boat piers, But each material has its disadvantages. With wood, rot sets in, splinters come out, waterlogging developes, fires are possible, plus a host of other problems. With steel, there's rust, conduction of heat, and excessive weight and bulk, such that a steel structure generally is permanent — immoveable in nature and tied in securely to the ocean or lake bottom.

Here was a natural for someone who wanted to "build a better dock."

Fibrecrete precasts a wide size range of modular Unifloats and pontoons, plus they can make a variety of specially designed shapes. The result is that by joining

these sections together piers, slips, docks, and rafts to fit a vast number of shore line needs are offered to potential customers.



Unifloat, as Fibrecrete has named its concrete dock units, is manufactured in a variety of modular sizes and shapes which can be joined together. Thus floats, piers, slips, rafts, and pontoons of various forms can be fashioned by joining the units together.

In cross section, a single, standard Unifloat looks like an oversized floor block, except that there's a lip running around the upper, outer edge. This lip houses the attachment for joining individual sections.

Fibrecrete uses as its principal aggregate an expanded and coated shale produced by Basalt Rock Co. Weight of the concrete used in the precasting operations is approximately 76 lbs. per cu. ft., or roughly 14 lbs. more than a similar volume of fresh water. Thus, since each unit has quite large cores, the major portion of a float rises above the water line.

A nonmetallic fiber, cast within each concrete unit, acts as reinforcement. Special steel molds have been designed for the casting operation. Unifloats vary in size from 3 x 8 to 6 x 8 feet, and pontoons can be built in a range of sizes from 3 x 6 to 4 x 8 feet.

One of the selling characteristics of Unifloat, according to its designer, Ernest M. Usab, is its good stability in water — more so than other floating types of marine docking assemblies. Unit assemblies, due to the increased dead weight of concrete over wood, remain almost level and show little motion wave action in even choppy or rough water.

The float's dead-weight water line is such that more than half of its height is above water. Unifloat assemblies displace 91 lbs. of water per sq. ft. of dock surface. Dead weight is 23 lbs. per sq. ft. Live load rating is 48 lbs. per sq. ft.

Mr. Usab says Fibrecrete's marine systems are, for all practical purposes, maintenance free and should give good service for at least 15 years or more. The only upkeep necessary would be painting of the stringers that join multi-units together.

Soundness of Mr. Usab's design is illustrated by the fact that his units have been accepted by several cities along the west coast, including Long Beach. The float has been tested in actual service for at least 18 months.

Mr. Usab said that arrangements can be made by other concrete precasting plants to obtain licenses and necessary equipment for producing up to 60 units per day.

Block, for Interior and Exterior Construction, Is Feature of PCA Exhibit at Home Show of NAHB

Block in a variety of uses decorated the Portland Cement Association's exhibit at this year's home show, held in Chicago the middle of January. The home show was a part of the National Association of Home Builders' convention and exhibition.

On display at the PCA booth were examples of concrete masonry used both for exterior and interior construction.

One corner of a concrete masonry home, with overhanging eaves and a wall of 4-inch high block in running bond, was used to show one type of exterior construction. A patio setting was created by laying patio block on the floor and building a basket-weave exterior wall, also featuring 4-inch high units. A splitblock planter decorated the outside of the model.

The inside featured a variety of possible finishes and showed, in stages, how each could be constructed.

According to S. H. Wesby, manager, housing and cement products bureau, PCA, comments of visitors to the booth were favorable for the display of uses and recommended detail for construction with concrete masonry. Mr. Wesby felt such displays could be adapted for use by local manufacturers at shows in their own locales.



Hot Oil to Produce

Schneider Concrete Products reduces some and eliminates other costs by piping bot oil through water troughs to produce steam for curing concrete block.

Steam (moisture), while essential to the proper curing of concrete, develops some headaches and definite cost considerations in its production at concrete masonry and precast concrete products plants.

A possibility of reducing some of these production problems and expenses may come from a steam-producing system of the type installed two years ago at Schneider Concrete Products, Elgin, Ill. The system was designed and installed by the George C. Meadows & Co., also of Elgin.

Hot-oil-transfer units, similar to this one at Schneider's, are not too uncommon in other industries where a controlled quantity of heat is piped into a closed vessel to produce steam from water, or heat another liquid, such as asphalt. And to some extent, hot oil has been used in the concrete products industries.

But, with the usual installation for steam production, the heat-transfer oil is first brought up to the required temperature and then is circulated in a closed path of tubing through a water chamber. Then the steam is taken off the water chamber and piped into the kilns in the regular fashion.

Schneider's installation has a slightly different twist. Here, the hot oil circulates directly from the

burner to the kilns at a temperature of 400°F. (Meadows Hy-Temperature Hot Oil Heat Transfer Systems are designed to produce hot oil at controlled temperatures from 350°F. to 600°F.). Prior to entering the kilns, the main hot-oil pipe segments into a feeder system such that two lines carry the heat-transfer oil into each of the three kilns. Thus, identical piping systems run along each of the longer walls of the kilns. Taking one wall as an example, the intake line, with the hot-oil drops into and is submerged in a trough of water that runs the full length of the kiln. This initial pass is the steam producing portion of the system. Then, the somewhat-cooled oil makes three more passes along the kiln wall before it circulates back to the burner. This same oil then is reheated and circulated through the system again.

Plant owner Stanley Schneider, while discussing his steam-producing system, was quick to point out what he considered were its advantages over the usual boiler installation. Foremost was the consideration that by using hot oil run directly into the kiln, he eliminated many of the worries—and costs—connected with water treatment, scale deposits on boiler wall and lines and leaks developing around pipe junctures and high pressure valves. Another top

plus brought out by Mr. Schneider was the fact that his pay roll did not include the wages of an engineerhis unit is automatic; almost anyone could run it; temperatures are kept constant by thermocouples: and the oil circulates through the system at pressures below 15 lbs. per sq. in. Another advantage-particularly so in this western suburb of Chicago where it gets quite cold in winterwas the elimination of freeze ups. Maintenance costs, according to Mr. Schneider, are almost nil-a leak developed recently in the system after nearly two years of operation, but this has been his only trouble. (A: nearby asphalt plant, using a similar . installation for the last six years, has had to filter the oil only once).

Schneider Concrete Products' heating unit has a rating of 1,000,000 B.T.U's., and with this output, he cures 2,592 block in a 16-hour cycle using a maximum kiln temperature of 180°F. Mr. Schneider roughly estimated his fuel costs of curing at somewhere between ½ and ¾ of a cent per block.

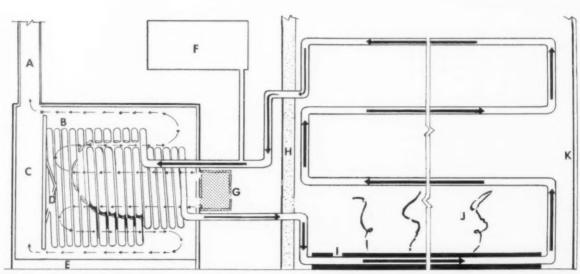
The G. P. Reichel Products and Equipment Co., Chicago, Ill., has been appointed distributor of the Meadows Hy-Temperature Hot Oil Heat Transfer Systems to the concrete masonry and precast concrete products industries.

Steam





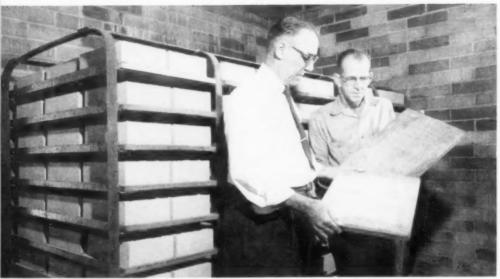


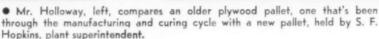


• In this diagram of a Meadows hot-oil and steam-producing system, heat (small arrows) from the burner (G) makes one pass through the coils (B), bounces off the baffle plate (D), then makes two more passes around the coils before it goes up along the end cover (C) and out the flue (A). Heating unit insulation is indicated (E). The long arrows trace the path of the hot-oil from the coils, through the rear kiln wall (H), and into the water tray

(I) to produce steam (J). Then the hot-oil circulates up along the front of the kiln, near the kiln door (K), and makes three passes along the kiln wall before it goes back, past the expansion tank (F), to the heating coils. The photographs show Mr. Schneider's expansion tank sitting on top of his heating unit enclosure, left, hot-oil coils of a unit, top center, and Mr. Schneider's upright system, right.

Pallets Weather







A New Orleans manufacturer of concrete brick has found that using fir plywood pallets cuts costs and simplifies operations.

Charles L. Holloway of the Holloway House Wrecking Co. in New Orleans has been in the concrete brick business for 12 years. He has tried a number of materials for pallets and has found fir plywood to be consistently the most satisfactory from the standpoints of both replacement and performance.

Quality of pallets is vital because, as with block, they must support the bricks during the entire manufacturing and curing cycle, which includes heat (140°F), pressure, and moisture. Two sand and gravel bricks, 75% in. x 115% in. or 8 in. x 12 in., are formed on each pallet, giving it a loaded weight of approximately 22 lbs.

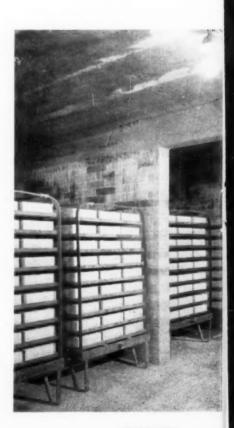
Over the years, Holloway House Wrecking Co. has tried several kinds of plywood, as well as steel and metallined plywood, for pallets. Steel pallets, they have found, are too heavy for the workers to handle very long at a time. Metal-lined plywood has the disadvantage of offering a surface to which concrete adheres more closely than wood, making an expensive cleaning process necessary. Overlaid

fir plywood has been tried, too. (This is regular exterior plywood with a resin-impregnated fiber permanently bonded to its surface. Panels of overlaid plywood are quite impervious to moisture absorption and resist wear.) But the advantage of the highly moisture-resistant surface was cancelled by the fact that the unusuly severe conditions of vibration under pressure wore through the overlay quite rapidly.

Best results have been obtained from Exterior A-A and Marine grades of plywood. The only preparation needed is edge-sealing with heavy paint — the flat surfaces need no special treatment. Although some face-checking does occur because of moisture exposure, it is not enough to be a serious problem.

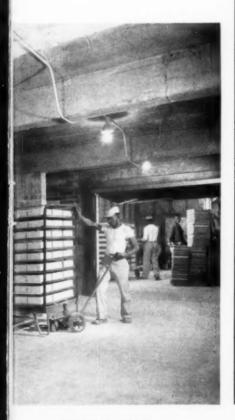
Mr. Holloway has done some experimenting with Exterior PlyForm (B-B), which is less expensive than Exterior A-A plywood and seems to give practically the same surface.

Some of Mr. Holloway's plywood pallets are nine years old, though the average life is about three years. And Mr. Holloway states that his company has not found it necessary to give their plywood pallets a periodic and expensive cleaning and scraping treatment.



Cycle Longer





In designing a reinforced concrete structure, the engineer takes into account the fact that cracks will eventually develop in the structure. These cracks expose the reinforcing bars to the atmosphere with consequent corrosion which can weaken the entire structure. Recent evidence uncovered at the National Bureau of Standards, however, indicates that these cracks are narrower near the surface of the reinforcing bar than at the outside concrete surface, thus exposing less of the bar to corrosion than was heretofore believed. These measurements were made by D. Watstein and R. G. Mathey of the Bureau's structural engineering labora-

Conventionally reinforced concrete normally develops numerous fine cracks when the tensile strains caused by loads, drying shrinkage, and thermal changes combine to exceed the limit of extensibility of concrete. Only through careful design and proper selection of well-designed deformed reinforcing bars can the designer limit the width of these cracks to safeguard the steel bars against corrosion. It had been previously believed that the cracks were, on the average, nearly uniform in width from the surface of the concrete to the surface of the bars, and this assumption was followed in designing structures. Since there was indirect evidence that this assumption was not entirely true, the Bureau undertook a more detailed study of the variation of width of cracks.

The crack width measurements were made on tensile bond specimens designed to simulate a portion of the tensile zone of a reinforced concrete beam between two successive cracks. Each specimen was essentially a prism of concrete 8 in. long with a reinforcing bar embedded along the longitudinal axis. A tensile force was applied to the ends of the bar. The extension of the embedded portion of the bar, the over-all extension of the concrete prism at points 3% in. from the surface of the bar, and the over-

Crack Widths in Concrete

all change in length of the exterior surface of the prism were determined.

Since the length of the exterior surface of concrete remained substantially constant during the test, the over-all extension of the embedded bar was taken as the width of crack measured at the surface of concrete. The difference between the extension of the embedded bar and that of the concrete adjacent to the bar was assumed to give the width of crack at the surface of the bar.

The ratio of the width of crack at the surface of the bar to that at the exterior surface of concrete has been plotted against the applied stress, to provide the engineer with the necessary design information. This reduction of crack width in the vicinity of the surface of reinforcing steel was observed only for deformed bars; no measureable reduction of crack width was observed with smooth round bars.

Foam Concrete

(Continued from page 30)

indeed difficult. These light weight cylinders, when capped with vitro-bond, frequently broke when being removed from the capping fixture. If a cylinder safely passed this operation, it might be doomed to failure in the curing process, since moist curing caused the cellular concrete to soak up water and deteriorate to a certain degree. Then, too, the cohesion between the capped cylinders was sufficient to cause fracture when unstacking them in the moist room. Last, but not least, was the problem of absorbed water in the cylinders. During the test, water would be squeezed out of the cylinder, and the results under these conditions

were not the best. Finally it settled on a combination of moist curing, air drying, and plaster capping on the day of test. It was necessary to air dry the cylinders for the last two days to allow the water in the air cells to escape, thus assuring that the results represented the true concrete strength, and didnot include false readings due to hydraulic pressures of entrapped water.

Throughout the design testing, strengths varied from 100 PSI, for the forty-two pounds per cubic foot mix, to almost 1000 PSI for the present seventy-five pounds per cubic foot mix. The mix finally selected for use on the Cleveland Electric Illuminating Building consists of 752 pounds hi-early cement, 883 pounds sand, 386 pounds water and foam





 Lights dot Mankato's Automatic Batching Control Panel when Clete Skelly runs a test by punching the light test button.

Mankato's Automatic Batching Control system, nicknamed A.B.C., controlled the weighing and mixing of 5,000 problem-free batches in the first six months after installation. The result, according to the company, was 500,000 stronger and more even-textured block.

How does Mankato Concrete Masonry Co., Mankato, Minn., feel about the Automatic Batching Control system installed in their new plant?

They put it this way, "the A. B. C. doesn't start the morning shift tired; it doesn't end the day tired from doing the same work hour after hour; it doesn't have outside interests or family problems—It's always on the job."

Their electronic batching and mixing brain has regulated the weighing and mixing of over 500,000 block in the first six months after it was installed, April, 1957.

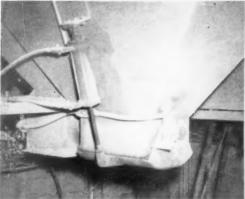
Added to this, Mankato Concrete Masonry feels that the original specifications for the unit have more than been confirmed. Not only have production costs been controlled, but they have been reduced substantially.

With the automatic batching control unit, all weighing, mixing, and a good portion of the material handling of the raw materials going into concrete block are completely automatic. This, of course, eliminates the need for a mixer man—a definite

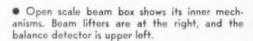
savings in the cost of operating the plant. His tasks, which are both repetitive and dirty, are taken over by the unit. And the human error that goes with such tasks—allowing too little or too much of costly ingredients to go into a batch—is eliminated.

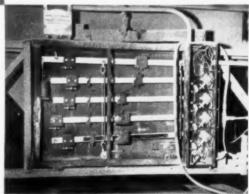
When an occasional adjustment is needed, or when the A. B. C. has to be reset for new formulas, changes are made by others in the plant—the block machine operator or the foreman.

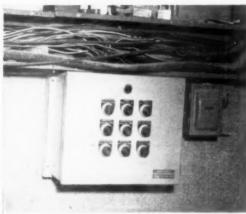
Another important consideration discovered by Mankato's manage-



 A pneumatic cylinder operates the traveling weighbatcher gate. Position of the gates is verified by the switch mounted on the gate, to the right of the cylinder.







 In case of the A.B.C.'s failure, or when minor adjustments are necessary, production at Mankato need not stop. Pneumatic cylinders can be operated from the manual control box.

ment after installation of the A. B. C. was a substantial increase in their block's strength and, at the same time, a more consistently even texture. Using their old formulas, strength was increased as much as 42 per cent, according to their statements. Thus more economical formulas were set up which still met specifications but also gave a better yield.

The A. B. C. was specifically engineered for use in block plants. It was designed for Mankato Concrete Masonry Co. by the Ramsey Engineering Co., St. Paul, Minn.

All the muscle work in this system is done by pneumatic cylinders. Pneumatic operators are installed on the gates of the aggregate bins, weighbatcher, and charging side of the mixer. Position verifiers are used with all cylinders so that the control system knows when the gates have been opened and closed. That is, besides telling them when to open and close, the A. B. C. also gets a signal back when the orders have been carried out. The pneumatically controlled gates on the aggregate

bins have a flutter action which is used as the scale comes into balance. This action cuts down the material "hanging in the air" and makes for more accurate weighing.

The control unit continuously measures the pulse of the operation through various measuring devices. It also controls the mixing time.

Moisture of the concrete is continuously measured and regulated by a Ramsey Moisture Probe and Ramsey Water Control System. Both these products are distributed through Forrer's—Products for Masonry.

Mankato's A.B.C. (article begins page 38)

Control of the traveling weighbatcher is such that as the batcher moves to each loading station, the proper beam, regulating the quanity of the particular material, is freed. When balance is reached, the balance detector reports this to the A. B. C. which in turn shuts the gate to stop the flow of material.

Various admixtures are added automatically; storage levels are continuously monitored; and the sequence of operation is accurately reported by position verifiers. The entire operation is paced by the amount of concrete in the block machine

Alarms have been provided to give an adequate warning of any unsatisfactory condition. The entire operation is illustrated on the panel, and pilot lights show the sequence of operations. Because of the unique design, trouble shooting problems have been practically eliminated. Any likely trouble that might develop can be identified and corrected in a matter of minutes.

Since making the installation, over 5,000 problem-free batches in the six-month period were produced. However, as an additional safeguard, a failure of any of the parts of the A. B. C. will stop the automatic cycle rather than produce a faulty batch. Further, a manual operating board was installed so that, in case of fail-

ure, the plant can continue block production.

The advantages of the Automatic Batching Control system, as listed by Mankato, are:

- 1. A mixer man is not required.
- 2. Variations in weighing are
- Identical, fresh batches are always available so that production capacity of the block machine can be maintained.
- The entire manufacturing opperation is in the hands of key men.
- Changes in the concrete mix formula are easily made. Since the control does not forget, you have complete assurance that the mix is being made to your specifications.
- All additives are added automatically and in exact amounts.
- 7. Lightweight aggregates are prewet before cement is added. Heavyweight aggregates and cement are mixed dry and then water is added. Mixing water is consistently and accurately controlled during the entire mixing operation.
- General plant maintenance is reduced because the mixer can be completely enclosed, thereby reducing dust.



Construction, 1958 (From page 26)

classrooms will be provided in the 1957-58 school year.

- A continuing high level of other state and local construction of all types. While a slowing down has been noted in sewerage and water facilities, the sheer needs of communities would seem to dictate a volume close to the \$1.3 billion registered in 1957, if indications of easing bond market conditions hold true.
- A stabilizing of the conservation and development field at near 1957 levels as large reclamation and other federal projects move into advanced stages.
- Increasing defense spending, both on relocation of Air Force bases and the expanding missiles program, should add further to 1958's public construction.

CEMENT BRIEFS

HURON PORTLAND CEMENT Co. took over operation of a limestone quarry near Alpena, Michigan, last month. The quarry will serve the adjacent plant of the cement company.

COLUMBIA-SOUTHERN CHEMICAL CORPORATION of Cleveland, Ohio, a division of Pittsburgh Plate Glass Company, recently announced plans to construct an eight-million-dollar cement plant in Norton Township. Ohio. Expected production of the plant will be 1,200,000 barrels of cement per year.

Hydraulic Press Brick Company, St. Louis, Mo., has contracted to purchase the plant of Midwest Aggregates, Incorporated of Brooklyn, Indiana, manufacturers of lightweight aggregate for structural concrete and concrete products. The acquisition will increase Hydraulic's production of Haydite by 70%, or to a capacity of 500,000 cubic yards per year.

Carolina Giant Cement Company at Harleyville, South Carolina, has completed its expansion. A third kiln, 350 feet long, 10 storage silos, each with 10,000 barrels capacity, and a new finish department system were included in the plant additions. With the new equipment, capacity of the plant is about 3,076,000 barrels of cement per year.

Cement Production

Production of finished portland cement in October 1957, as reported by 165 plants to the Bureau of Mines, U.S. Department of the Interior, totaled 30,121,000 barrels. This is an increase of 4 per cent over October 1956 when production was 29,051,000 barrels. Mill shipments for October 1957 totaled 30,347,000 barrels compared to 31,354,000 barrels in October 1956, showing a 2 per cent decrease.

Mill stocks on hand October 31. 1957, were up by a whopping 48 per cent. Comparative figures are 13.007,000 barrels on hand at the end of October 1956 and 19,207,000 barrels for the end of October 1957.



Interesting Figures

Growth of suburban areas, according to one source, since 1950 has moved upward populationwise at a rate seven times faster than metropolitan areas. Between now and 1960 suburban population is expected to increase another 40 per cent; while in the same time span, cities are only expected to gain a total of 8 per cent.

These percentile gains must be looked at cautiously, though. An 8 per cent increase in the population of a city of say 500.000 amounts to 40,000 people. On the other hand, a 40 per cent increase in a suburban community of 10,000 would amount to 4,000. And if the larger city had a total suburban population of 1/5 its size, the over-all increase in the number of residents of the two areas would total the same.

Who Buys

There's a big behind-the-scenes controversy raging in the magazines as to which member of the family has the influence when it comes to purchasing. The magazines directed at the female of the household have for a long time strongly defended the "weaker sex" as the person with the purse strings. Only recently have the strictly men's magazines put up any sort of a battle outside the areas of sports, liquors, men's clothing and accesories, and cigarettes.

We suspect, though, that this fight over who buys what still will be unresolved years from now. And then, as now, particularly with respect to major purchases such as a house, the woman of the family will be voicing her opinions.

Some of the opinions expressed by a number of housewives at a Congress for Better Living, held in Washington, D.C., should be of interest to block producers. When the panelists were questioned about exposed building materials, such as masonry walls, they responded by saying that they liked the honesty of the effect.

Another interesting view expressed by most of the panel members was that both a garage and basement were essential features of a house but in typical woman style, the girls said a garage wasn't necessary as a place to park and protect the family car; the women wanted it for added storage space.

When questioned as to what single room they would add to their present living quarters, the largest number indicated they would add on another bathroom.

Looking for Business

Here's a public service project that, if suggested (quietly) in your community, might also lead to a little bit of profitable business in ready mixed concrete.

Postmaster Clifford J. Akey. Greenfield, Mass., recently informed the local city authorities that his walking carriers had volunteered to report uneven or broken sidewalks noticed while making their rounds.

Patterns for Growth

Some significant growth characteristics were unfolded in a Sales Management survey of five of the fastest growing corporations in the U.S. (Continental Can, Dow Chemical, Reynolds Metals, Minnesota Mining & Manufacturing Co., and Chas. Pfizer & Co.).

Of course, each corporation was sparked by a forward-looking and forward-thinking management. Instead of viewing the present and future business activity through dark, clouded glasses, managements expect a huge break-through to be just on the horizon.

To meet, and make the most of this substantial business upsurge, each of the five studied has definite plans—not embryonic dreams and mind ideas—of where they are going next year, the year following, 1963, and even, in some cases, 1983. These projections, down on paper to act as a guidepost, collectively include a 50 per cent increase in sales by 1960.

To implement these programs of planned sales increases, each corporation included a substantial dollar expenditure for research in its present budget. This figure varied with the corporation, but the range was between one and five per cent of sales.

Another common characteristic of the five was that all were reinvesting at least half or more of profits back into the business. Two of them were expanding and building new facilities at a rate double their present annual profit. The efficacy of this approach can be seen in the fact that these five have trebled their net profit in the last decade.

In the area of management development, one corporation's president said, in effect, we give each member of our management team a defined area—and he is held accountable for the outcome. And further, each is given extra assignments that broaden and stretch his experience and ability.

The memory is short

Everyone is forgetful—more or less. To somewhat counteract this human weakness, one top salesman keeps a handy pack of 3 x 5 cards in his pocket at all times. Whenever he thinks of, or sees, something that just conceivably might prove useful—either now or in the future—he jots it down on one of the cards. Each evening, he goes over the cards and files them for future reference.

Customer's Problems

Listen when your customer is talking about the problems of his business. A solution to just one difficulty, something you can spot because you're outside looking in, will help him and can mean sales and profits for you.

Lithibar Company

Concrete Products Supply Company, Minneapolis, Minnesota, was recently appointed by Lithibar Company, Holland, Michigan, as their exclusive distributor for the states of Minnesota, North Dakota, and South Dakota.

Vaughn Monsell, Greensburg. Pennsylvania, is now representative for the territory consisting of western New York, western Pennsylvania and West Virginia.

Smith Machine Sales Company, Woodbridge, New Jersey, was appointed by Lithibar Company recently as the new exclusive distributor in eastern New York State, Massachusetts, Vermont, New Hampshire, and Maine.

Interstate Machinery & Supply Company, Omaha, Nebraska, is now the exclusive distributor in the state of Nebraska.

Dewey and Almy

J. Wade Miller, Jr., is the new manager of the central services division, Dewey and Almy Chemical Company Division of W. R. Grace & Co., Cambridge, Massachusetts. Mr. Miller will be in charge of advertising, industrial relations, marketing research, office services, public relations, and purchasing.

Universal Atlas Cement

Promotions of sales division personnel have taken place at Universal Atlas Cement Company, United States Steel Corporation subsidiary, New York City. Frank J. Whitman, sales manager of the Chicago, Ill. territory, was appointed manager of sales of the central region at Chicago. Wilbur M. Tomlinson, sales manager at Kansas City, Mo., was appointed manager of sales of the western region at Kansas City. Thomas E. Bertelsen, assistant sales manager of the Chicago territory, will succeed Mr. Tomlinson as sales manager at Kansas City.

Pettibone Mulliken Corp.

E. J. Seifert, president, Pettibone Mulliken Corp., Chicago, Ill., announces the appointment of new regional managers in the western and midwest regions. They will be reponsible for the sales and service of the complete line of construction and road building equipment manufactured by Pettibone and its subsidiaries.

Alex E. Ainlay, western regional manager, will supervise sales and service in the 11 western states and the El Paso area of Texas. Mr. Ainlay was formerly a Pettibone district representative in northern California

Clem C. Persily, midwest regional manager, will be responsible for sales and service in the 13 midwestern states. Mr. Persily was formerly sales manager for Worthington Corp.

Kent Machine Co.

The Ensminger and Company, Inc., of Wilkes-Barre, Pennsylvania, has been appointed as agent for the Kent Machine Co., Cleveland, Ohio, for their line of concrete machinery. The company will be Kent's representative in 22 counties in the northeast section of Pennsylvania.

American-Marietta Co.

Stephen W. Benedict was recently elected president of The Master Builders Co., division of American-Marietta Co. at Cleveland, Ohio, and vice-chairman of the board of directors of Master Builders Co., Ltd., of Canada

Other appointments announced recently include Lane Knight as president of The Master Builders Co., Ltd., Canada, and William B. Phillips as executive vice-president of The Master Builders Co. division at Cleveland.

Allis-Chalmers

A new district office at 11 West Monument Street, Dayton, Ohio, has been established by Allis-Chalmers Industries Group, sales function of Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin.

Robert B. Fulton, former manager of the Cincinnati district, is the Dayton manager. William F. Vander Mass moves from manager of the Grand Rapids district to man-

ager of the Cincinnati district, and James A. Sudduth becomes manager of the Grand Rapids district.

Promotion of C. B. Smith from manager of the service section to director of service, industries group, has been announced by Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin. Mr. Smith will be responsible for service policies and co-ordination of service in the industries group.

C. R. Gibbs, supervisor of mechanical equipment, was appointed manager of the service section to succeed Mr. Smith, and T. J. Hanley becomes assistant manager of the section.

Soiltest, Incorporated

Edward E. Brush and Mathias Mutter have been elected vice-presidents of Soiltest, Incorporated, of Chicago, Illinois. Mr. Brush was formerly sales manager for the firm, and is now vice-president in charge of sales. Mr. Mutter, the former production manager, is vice-president in charge of production.

Koehring Company

Indiana Products Company, South Bend, Indiana, has been selected as a foundry sales representative for the "Moto-Bug", power material handling unit made by Kwik-Mix Company. Port Washington, Wisconsin, subsidiary of the Koehring Company, Milwaukee, Wisconsin, Territory assigned to the new distributor includes all of Indiana and Michigan, plus the western part of Kentucky and the Chicago area in Illinois.

Lamson Mobilift Corp.

Lamson Mobilift Corporation, Portland, Oregon, recently announced the appointment of Edward W. Haskell as district manager for the west central region at Chicago, Illinois. His duties include the coordination of sales and service by Lamson Mobilift dealers in the west central states and in Canada.

Mr. Haskell, who formerly served as district manager for the east central district, has been with the firm since 1956. He has worked with Towmotor Corporation, Chicago, Illinois, and Allsteel Welded Truck Company of Rockford, Illinois.

Cut Costs with RAMSEY MOISTURE CONTROLS



RAMSEY READY MIX MOISTURE PROBE

Makes moisture analysis — continuous, reliable — inexpensive. "Ready Mix" made from sand containing an unknown amount of water cannot be properly formulated! Compute "your" formula on dry weight! A correction chart supplied with each meter permits easy conversion to dry weight batching! Additional water requirements can be metered correctly! The meter measures surface moisture of sand around probe. Installation possible in less than I hour.

RAMSEY WATER CONTROL SYSTEM



NI-HARD WEAR

Control Moisture in Concrete Mixes

Profit Making Advantages:

- Increases Production. More blocks per hour — per man.
- Reduces Material Expense. Use less cement.
- Reduces Operating Costs.
- Controls Sand Moisture Content.
- Improved Quality. More uniform blocks. System Guaranteed for One Year.

SEE Earl Netzband of FORRER'S for information on the ABC of the Industry RAMSEY'S AUTOMATIC BATCHING CONTROL

Sherman Hotel

Feb. 16-20th

NCMA Convention

FORRER'S, 2225 N. Humboldt Ave., Milwaukee 12, Wis. Manufactured by RAMSEY Engineering Co.

FORRER'S STAR PRODUCTS FOR MASONRY

- * X-L 100. Powdered concrete plasticizer
- Kleen-Mix. Eliminates "build-up" on hoppers and mixers
- Hydro-check. The perfect fast-setting, waterproofing cement additive
- De-Solv-It. Dissolves concrete - without harming metal
- Accelerator. Speeds setting concrete down to 15° F
- For-Air. Concentrated air entraining agent
- Ramsey Maisture Probe Measures sand moisture content
- Ramsey Moisture Meter. Regulates water in concrete mix automatically
- Kover-Kote. Transparent protective film for ready mix trucks.



- Q: This big slab job calls for low slump—HOW CAN WE BE SURE OF FAST DIS-CHARGE?
- Q: How do we lick the probsuch a short run?
- Q: Is there a way to get by



answer

Long famed for mixing ability, TRANS-CRETES are a natural for even the lowest slump jobs. Their simple, more compact design - better weight distribution and greater maneuverability GUARANTEE BIG-GER PROFITS ON ANY TYPE JOB.

TED (Truck Engine Drive) and Separate Engine Models to 7 yds. mixing capacity.

CONSTRUCTION MACHINERY CO. Waterloo, Iowa



WRITE FOR NEW FREE TRANSCRETE CATALOG

NEWS from the Manufacturer

METHODS MATERIALS EQUIPMENT TOOLS

Challenge Batching Plant Is Also Conveyor for Stockpiling Materials; Is Towed from Job to Job

A new, dual purpose, portable batching plant for ready mixed concrete service is now being introduced by the Cook Bros. Equipment Company. Known as the Challenge Runabout, the portable unit with its self contained conveyor belt and hopper scale, batches from 30 to 45 cubic yards of aggregate per hour and serves also as a traveling conveyor for stockpiling at the rate of 350 ft. per minute.

One man can operate the Runabout and move it around from job to job. A feature of the batch plant is the downward tilt of the conveyor boom when the unit is hitched in position for towing. This brings the overall height down to 9' 9" to allow the unit to pass under bridges or viaducts.

The Runabout has a 3½ cubic yard hopper capacity, and is equipped with a Fairbanks-Morse scale with separate over and under indicator. The bottom of the hopper is tilted downward and to the rear, and discharge of the material is controlled by a set of double gates. Loading of the hopper can be accomplished with either a front end loader or a conveyor.

The conveyor boom has a reach of over 25 feet from the front supporting wheels to the discharge chute. The conveyor has an attached boot to make close contact with the charging hopper of the transit mixer. The discharge chute reaches 11 feet 6 inches high, allowing the mixer to be driven under the boom for charging.

The Runabout pivots on a 30 ft. radius. This is accomplished by swinging the front wheels inward. When this is done the unit serves as a conveyor for stockpiling operation. Used as a conveyor the $3\frac{1}{2}$ yard Runabout will stockpile up to 500 tons of aggregate or 10 carloads by depositing the material over a 90° arc.



Further information is available from Cook Bros. Equipment Co., 3334 San Fernando Road, Los Angeles 65, California.

Enter 845 on Inquiry Card

Metal Gauge Measures Depth of Treads in Tires

An instrument designed to measure the tread-depth of tires has been developed by the Dill Manufacturing Company, 700 East 82nd Street, Cleveland 3, Ohio.

Known as the model 5096 Tread Depth Gauge, the instrument provides a means for gauging treads when mating dual tires for trucks and off-the-road equipment. It also measures the remaining life of a tire and acts as a safety check.



The gauge is graduated in 1/16" increments up to five inches. It is of all-metal construction with a pocket clip on the case for carrying on the job.

Enter 846 on Inquiry Card

Hyster Adds Space Saver to Fork Lift Truck Line

Production of a new line of lift trucks has begun at the Peoria, Illinois, plant of Hyster Company, Portland, Oregon. The Space Saver line includes, 6000, 7000 and 8000 lb. capacity models that supplement existing Hyster machines in the 3000 to 5000 lb. range.

The large Space Saver cushiontired machines have a short turning radius. Power steering is standard equipment, as is the torque engine. According to the manufacturer, design features include spacing for visibility both forward and to the rear and the placement of controls and seating for the comfort of the



operator. The manufacturer states that this placement is based on measurement statistics of the average American male.

The units have a low mast height and are engineered with a long wheelbase. The over-all length is short. This provides underclearance at the center of the vehicle to prevent hang-up on steep ramps or rough terrain. Stacking aisle widths are 99½, 101 and 105½ inches for the 60, 70 and 80, while the intersecting aisle widths are 71, 73, and 74 inches. According to the manufacturer, the truck can be used in plants, warehouses, and service buildings having narrow aisles and restricted space for manipulation.

The low collapsed height of the

Ready



Cast



Strip



\$\$\$\$\$

STEEL FORMS put DUVAL

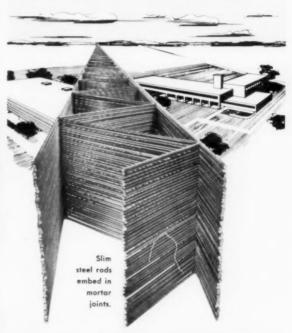
into production . . . FAS

Only 24 days clapsed from the time the first WATCO steel forms arrived until the first line of piling was stripped from the new, twin 22' x 535' casting beds installed by Duval Engineering & Contracting Co., Jacksonville, Florida. WATCO forms can put you into prestress production...fast. Write or call for recommendations.

PLANT CITY

Welding and Tank Company
P. O. BOX 1308, PLANT CITY, FLORIDA

the specified masonry reinforcement preferred **EVERYWHERE!**



All segments of the building industry depend on Dur-O-waL masonry wall reinforcement. This fabricated, high tensile steel reinforcing member scores on performance . . . safeguards masonry beauty. Available throughout the continent Dur-O-waL is ready for delivery to your building sites to provide hidden quality for superior



TRUSSED DESIGN
BUTT WELD
ADEFORMED RODS

DUR-O-WAL

Rigid Backbone of Steel For Every Masonry Wall

Dur-O-wal Div., Cedar Rapids Black Co., CEDAR RAPIDS, IA. Dur-O-wal Prod., Inc., Box 628, SYRACUSE, N.Y. Dur-O-wal of III., 119 N. River St., AURORA, ILL. Dur-O-wal Prod. of Ala., Inc., Box 5446, BIRMINGHAM, ALA. Dur-O-wal Prod., Inc., 4500 E. Lombard St., BALTIMORE, MD. Dur-O-wal Div., Frontier Mfg. Co., Box 49, PHOENIX, ARIZ. Dur-O-wal, Inc., 165 Utah St., TOLEDO, ONIO

mast is made possible by a six-roller carriage, the top of which extends beyond the top of the inner uprights at maximum lift height. In this position, the second set of rollers carries the load. The uprights are shaped in the form of a combination I-beam and channel section, with the rear channel flange extending beyond the web.

The Space Saver line is available either with two-speed constant mesh transmission, or with the new Hyster Power Shift Hystamatic transmission. More information is available from Hyster Company, 1003 Myers Street, Danville, Illinois.

Enter 847 on Inquiry Card

Motorola Power Speaker Attaches to 2-Way Radio

A new transistorized Big Voice power speaker is announced by Motorola to increase the effectiveness of two-way mobile radios by extending the listening range so that the driver will hear messages when working away from his parked vehicle. By turning a control, the speaker is also converted into a public address system with a half a mile or more range.



The outside mounted Big Voice speaker, along with its dash-mounted control unit, provides three types of operation to a vehicle equipped with any Motorola two-way radio. The radio may be used normally, receiving through its dashboard speaker; or, if the driver must leave the vehicle, receiver output can be switched through the Big Voice speaker, enabling the driver to hear incoming messages away from the car; or thirdly, the Big Voice speaker with the radio microphone can be used as a public address system, with the dashboard speaker remaining connected to the receiver to keep the radio in operation.

The Big Voice system is available either as part of a new Motorola in-

stallation or as an accessory kit for already installed equipment. It can be adapted to other makes and models. More information is available from Motorola Incorporated, communications and industrial electronics division, 4501 West Augusta Boulevard, Chicago 51, Illinois.

Enter B48 on Inquiry Card

Rotation-Tapping Action Is New on Sieve Shakers



A new pattern in shaking action has been built into the new Dynamic Sieve Shaker. The shaker than shaker, manufactured by Soiltest, Inc. 47-11 West North Ave., Chicago, Illinois, gives the same sieving of

all types of materials that were formerly separated on larger and heavier shakers. The Dynamic Sieve Shaker can be used for field, laboratory and production sieving or grading operations on materials such as sand, gravel, and aggregates.

The new shaking pattern involves the sieve platform being rotated in a small circular arc at the same time that it is being swayed in a vertical arc. An impact is imparted to the platform six times per revolution. The shaker motion continuously moves and redistributes the particles being analyzed over the sieve meshes. The tapping action separates materials for flow through the sieve meshes.

The Dynamic Sieve Shaker is available in either hand operated or motorized models and in sizes for 8 inch or 12 inch diameter sieves. The shaker housing, guards and sieve holders are made of aluminum. A four page bulletin on the Dynamic Sieve Shaker is available from the manufacturer on request.

Enter 849 on Inquiry Card

Portable Batching Plant Is Offered by Chain Belt

A smaller version of the Porto-Plant model 125 has been introduced by the Burmeister Division of the Chain Belt Company, Milwaukee I, Wisconsin. Features of portability and one man operation enable this Porto-Plant model 60 to produce between 400 and 500 cubic yards of concrete per day. The operator weighs both aggregate and cement from the control station located at the aggregate bin.



Storage capacity of the plant includes 25 to 30 tons of aggregate and 170 barrels of cement. Cement delivery may be by rail or truck.

Features of the 8-foot legal width plant include plug-in electrical and air connections, air compressor, dial scales, automatic water metering system as standard equipment and permanent plumbing. Optional equipment such as wheels and 5th wheel arrangement on the aggregate and cement bin can be included. For use as a central mix plant a Burmeister "Tilt-Up" 1 to 3 cubic yard mix may be used. More information is available from the company.

Enter B50 on Inquiry Card

Vitricon Glaze Resembles Original Marble Exterior

Resurfacing of a marble veneer exterior can be done with a glazed concrete material called Vitricon, according to Vitricon, Incorporated, manufacturer of the product. It also sprays on other masonry surfaces.

When it hardens, Vitricon forms an integral bond with the underlying material and presents a glazed surface.

Several color combinations are available, depending on the pigments



added to the mixture. A deep tan shade was selected to duplicate the color of marble facing, and a color spotting process was utilized to



EDMONT CASE NO. 616: Handling concrete block, a rubber coated canvas glove lasted 4 to 5 shifts. Edmont recommended a glove with triple-thick plastic palm coating (Monkey Grip No. 31) which wore 24 shifts and cut glove costs 72%.

Job-fitted glove cut costs 72%



Edmont GLOVES Gloves wear longer and cost much less when they fit the job. Edmont recommended the No. 31 Monkey Grip, in case above, because it has proved to be unequalled for handling rough, abrasive building block. Its wing thumb pattern, with curved, pre-flexed fingers, assures comfort and reduces hand fatigue.

Free Test Offer to Listed Firms: We make over 50 types of job-fitted gloves. Tell us your operation, materials handled. We will recommend the Edmont glove that best fits your job, and send samples for job-testing.

Edmont Manufacturing Company 1206 Walnut Street, Coshocton, Ohio In Canada write MSA, Toronto



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THE MANUFACTURERS EQUIPMENT COMPANY
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simulate the granular structure of

A series of spray applications is required for application of Vitricon. It is sprayed under pressure with modified paint spray equipment to fill and bridge hairline settlement cracks. This gives surfaces a monolithic appearance.

According to the manufacturer, the glaze is non-inflammable, reaches working hardness in a few hours, and can coat contoured or ornate surfaces of concrete, brick, block, stucco, or plaster. More information is available from Vitricon, Incorporated, Long Island City, New York. Enter B51 on Inquiry Card

Case Tractor Loader Is Designed for Visibility

A new four-wheel drive, rearwheel-steer tractor-loader in the 134 cu, yd. class is announced by J. I. Case Co. of Racine, Wisconsin. The new unit, designated as the W-9 Terraload'r, has three interchangeable buckets—a 138 cu. yd. heavy duty digging bucket; a 134 cu. yd. standard materials bucket; and a 234 cu. yd. light material bucket.

One design feature is the use of short lift arms, pivoted forward of the operator's position. According to the manufacturer, this, together with a low center of gravity and a wheel tread of 743/4 inches gives the W-9 side stability and longer forward reach. Forward reach at 7-foot dump height is 621/2 inches.



Location of the lift-arm-pivot, elimination of linkage in back of the bucket, and trunnion-mounting of tilt cylinders on lift arms afford the operator visibility in all directions. The operator can get on or off the machine, regardless of whether the boom is up or down, without his arm being caught in the lifting mechanism. Winterized cab and heater are optional extras.

A sight-leveling-gauge, mounted on the right lift-arm, enables the operator to set the bucket at level or predetermined digging position before it reaches the ground.

Rear wheels carry 40% more weight than front wheels, so that, according to the manufacturer, the machine doesn't buck or raise the rear wheels off the ground when carrying heavy loads. Each wheel has an independent differential. More information is available from J. I. Case Co., Racine, Wisconsin.

Enter 852 on Inquiry Card

Portability Is a Feature of Blaw-Knox Batch Plant

In Canada, a project which required batching 81,611 cubic yards of concrete was completed using a Blaw-Knox P-4150 GAC batching plant, According to the manufacturer.



the unit, equipped with 6-cubic-yard separate aggregate and cement batchers, batched 6,695 cubic yards in one week. The high for a 24-hour period was just under 2,000 cubic yards.

The P-4150 plant has three compartments for aggregate — each with a capacity of 37½ tons — and a cement compartment holding 200-225 barrels. In addition, Blaw-Knox furnished a 600-barrel low bulk cement storage bin.

According to the manufacturer, some of the features of the plant are its portability, speedy erection, large capacity, and adaptability. The plant can be moved to new locations for use either on short-term jobs or as a permanent installation. More information is available from Blaw-Knox Company, 300 Sixth Avenue, Pittsburgh 22, Pennsylvania.

Enter 853 on Inquiry Card

Long Boom Arrangement Added to Tractoloader

Dumping clearances of 13 feet 10 inches under the hinge pin, and 11 feet 4 inches under the bucket cutting edge, are now obtainable on the 2 cubic yard TL-20D Tractoloader

through the use of a special long boom arrangement, according to the manufacturer, Tractomotive Corporation, Deerfield, Illinois.



With this long boom arrangement the TL-20D has a minimum reach of 3 feet 3 inches at maximum height. At the 9-foot dumping clearance the minimum reach is 4 feet 6 inches, which is 1 foot 8 inches greater than that of the standard machine. According to the manufacturer, it is recommended for use in materials weighing up to 2700 pounds per cubic yard.

The TL·20D with long booms has all the features of the standard model. These include the single lever speed and direction control of the power shift transmission, torque converter, planetary axles pin-connected to the frame, power steering, power brakes and 24 volt electrical system. More information is available from the manufacturer.

Enter B54 on Inquiry Card

Materials Handling Line Expanded at Pettibone

The Pettibone Mulliken Corporation, 4700 West Division Street, Chicago 51, Illinois, reports a major expansion of the materials handling division.

Additions to the Pettibone Mercury line include a series of gas-powered, pneumatic-tired fork trucks with a capacity range from 1,500 to 5,000 pounds.

A line of electric-powered fork and platform trucks will include electric fork trucks in 1,000-pound and 10,000-pound capacities, and new models in stand-up rear control and stand-up center control types. The Pettibone Mercury division will continue to offer the Mercury line of electric, gas-electric, and gas tractors, as well as the complete line of standard and special industrial trailers.

Other Pettibone units will be offered, including the Pettibone Speedall front-end loaders, from 1½ to



Erickson Platform Truck (13000 lbs. capacity) in service charging autoclave at plant of Edgar D. Otto & Son, Albuquerque, N. Mex.

ERICKSON Ar-tic-u-lat-ed Platform Trucks with exclusive guide roller systems for trackless autoclaves will save you up to $50\,\%$ on your original material handling equipment . . *PLUS operating almost* $50\,\%$ faster than fork trucks in and around your plant!

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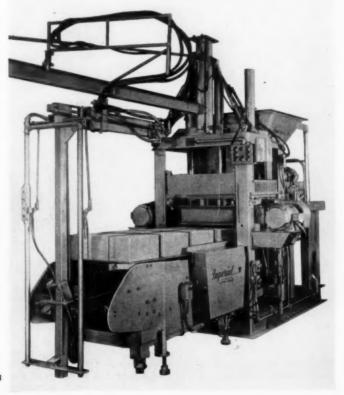
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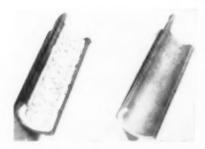
31/4 cubic-yards capacity; the Pettibone Speed Crane; the Petti-bone Speed Swing, a swing loader, used with bucket, fork or crane adaptations; and the Petti-bone Cary-lift, with capacity ratings up to 30,000 pounds.

Enter 855 on Inquiry Card

Removes Calcium Deposits In Boilers, Water Pipes

Scale-A-Way, a boiler scale remover, has been designed for the concrete industry by Edick Laboratories, Inc.

Scale-A-Way is designed to replace the acid cleaning periodically required of boilers which carry the large amounts of raw water used to produce steam for curing concrete masonry units and for heating aggregate.



Granular Scale-A-Way is poured into the boiler and allowed to soak. Used at a rate of 1 lb. per gallon of boiler water capacity, it dissolves or removes calcium and magnesium deposits. According to the manufacturer, Scale-A-Way is non-fuming, safe to handle, fully inhibited, non-corrosive, and does not contain caustic soda, hydrochloric or sulfuric acid. More information is available from Edick Laboratories, Inc., 427 W. National Avenue, Milwaukee 4, Wisconsin.

Enter 856 on Inquiry Card

Removes Old Concrete, Adds Protective Coating

Betonex is a new equipment cleaner developed in Germany which acts as a protective against the adherence of concrete to the machinery involved in its manufacture. According to the manufacturer, the liquid is either sprayed or brushed onto the machines in a thin and uniform coat.

Foreign matter can be removed after application of Betonex by spraying the surface with water. Collected residue which has already dried will be softened upon application of Betonex, then removed with a stiff brush. According to the manufacturer, the mixed material in the mixing drum is not affected.

More infomation on Betonex is available from Reiner-Chemie, Hans Reiner KG, Rodenbach—Kaiserslautern, Germany.

Enter B57 on Inquiry Card

Provides Hot Water For Cold Weather Concreting

Hot water for concrete aggregate mixing is provided by an automatic gas water heater produced by Ruud Manufacturing Company to meet cold weather pouring temperature specifications. The Ruud No. 200 is a multicoil gas water heater which connects to a 500-gallon storage tank to maintain the supply of hot water. The water, heated to a 150-degree F. temperature, is used in mixing the aggregate supplied to truck mixers.

The gas water heater-storage tank method of heating water for mixing concrete was developed for the state and federal jobs that require concrete to be between 50 and 70 degrees prior to pouring, according to the manufacturer.

Truck mixers with capacities from 3½ to 4 cubic yards require 105 to 120 gallons of heated water for each truck. The aquastat in the water heating system is set at 150 degrees, allowing the truck units to operate continuously as the Ruud gas water heater rebuilds the high temperature water supply.



Both the automatic gas water heater and the water storage tank are housed in a corrugated steel building under the water measuring tank and

the mixing machinery. This consists of a hopper in which the aggregates, Portland cement, and the hot water are weighed and passed from the storage bin into the batcher, then into the transit mixer. More information is available from Ruud Manufacturing Company, Kalamazoo, Michigan.

Enter 858 on Inquiry Card

G-E's 250-Watt Station Works in 450-460 mc Band



General Electric Company is producing an UHF base station radio transmitter designed to reach vehicles traveling in outlying areas. The unit may be licensed for operation in the 450-460 mc band and is neered to deliver up to 250 watts. According to the manufactur-

er, the new transmitter increases power output up to 12 db and enables dispatchers to talk up to 50 percent farther. An operator of a 15watt station transmitter who is now covering 20 miles with his unit may talk up to 30 miles with the superpowered set.

Another feature of the transmitter is that it cuts down "dead spots" in the transmission area by increasing signal saturation and helps a vehicle located unfavorably to receive the message.

Components and test points in the amplifier are accessible from the front or the rear of the unit. The rear door has a safety feature which automatically grounds high voltages as the door is open. Power output is measured by a built-in test meter.

More information is available from General Electric Company, communication products department, Syracuse, New York.

Enter 859 on Inquiry Card

Portable Cement Silo Is Offered by Texas Firm

A new portable bulk cement plant that can be towed at normal road speed by a standard truck tractor is being manufactured by Ross Porta-

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Plant, a Brownwood, Texas, firm.

The plant has a 220-barrel capacity. Included in the design is a cement hopper that falls into place when the unit is raised into the operating position.



Power is supplied by a 30 H. P. gasoline engine to a 9-inch screw system which loads and elevates 150 barrels per hour. The loading hopper has a ten foot extension to accommodate dump trucks, tail end, hopper bottom dump trailers, or rail loading.

Travelling dimensions of the unit are: length — 31 feet, 6 inches; width — 7 feet; height — 12 feet, 4 inches. As a silo the unit stands 25 feet high, 7 feet wide, and 7 feet long. The unit weighs 13,500 pounds empty. According to the manufacturer, the unit's dimensions are within the legal limits for highway travel.

More information on the Bulk Cement Unit is available from Ross Porta-Plant, Box 446, Brownwood, Texas.

Enter 860 on Inquiry Card

Transistor-Powered Radio Line at General Electric

General Electric Company's Communication Products Department has developed a transistor-powered line of mobile radio equipment which fea-



tures a 60-watt mobile unit. The company offers 60 or 30 watt transistor-powered mobile radios in low band (25.54 mc), 25 or 50 watts in high band (144-174 mc) and 15 watts in citizens' band (450-470 mc).

Transistorized power supplies are associated with both the transmitter and receiver. Mounted externally on the front of the mobile combination is a grille-like "heat sink" as protection for the transistors. The units may be used with either positive or negative ground 12-volt dc systems. Further information is available from General Electric communication products department, Syracuse, New York.

Enter 861 on Inquiry Card

Change Hopper and Water System on '58 Transcrete

An all-weather water system and added hopper refinements are new features offered in the 1958 Transcrete Truck Mixer made by the Construction Machinery Company, Waterloo, Iowa.



The all-weather water system has two major improvements. According to the manufacturer, a longer-life water pump has been added, with a ceramic-faced seal for leakage protection.

The other change is that the water controls are placed at the open end of the mixer.

Redesigned supports on the hopper offer maximum rigidity with minimum overhang, according to the manufacturer. Restyled positioning stop on the swing out hopper has a wider backing pad. Also, a new heavier section pipe connects the hopper supports. This pipe is now

stable and forms an independent unit that does not move with the swing out hopper.

Further information is available from Construction Machinery Company, Waterloo, Iowa.

Enter B62 on Inquiry Card

Hydraulic Counterweight Removal on Truck Crane

Gar Wood has added a new 25ton truck crane, the model 100BT, to its line. The unit features a hydraulic counterweight removal system and a choice of 6 feet x 4 feet or 6 feet x 6 feet Gar Wood chassis.



According to the manufacturer, both sizes of the carriers feature a detachable rear outrigger housing which allows gross weight to be reduced to conform to highway load restrictions. A live boom hoist, direct gear drive, conical hook rollers and fabricated machinery deck are also featured in the machine. The 100-BT's machinery deck is rigged for ordinary attachments. Both eight and nine-foot rear axles are available.

Both manual and hydraulic counterweight removal systems are offered as options. With the hydraulic system the pressing of a button lowers the counterweight to a point where it straddles the mainframe. Here, the crane's hook block can be attached and the weight removed from the chassis, or the counterweight can be roaded by the crane, according to the manufacturer, since in this position the weight distribution conforms to the legal limits in most states.

More information is available from Gar Wood Industries, Inc., Customer Service Department, Wayne, Michigan.

Enter B63 on Inquiry Card

BLOCK HANDLING EQUIPMENT -Bulletin No. 124, a catalog sheet on the Besser-Matic block loader, unloader and depalletizer is available from Besser Company, Alpena, Michigan.

Enter 864 on Inquiry Card

COLORCRETE SPRAY SYSTEM -Beautifying and protecting masonry surfaces by pneumatic spraying is the subject of a full-color 16-page brochure, titled "Colorcrete - Modern Spraying System." It shows the range of colors and the application of Colorcrete on many buildings and surfaces. The brochure is available from Colorcrete Industries, Inc., 331 Ottawa Avenue, Holland, Mich., enclosing 10c to cover cost of postage and handling.

Enter 865 on Inquiry Card

Conveyor Machinery - Chain Belt Company, sales promotion department, Milwaukee 1, Wis., announces the publication of Catalog 610 titled "Mechanical Power Trans-

mission and Conveying Machinery". Catalog 610 contains descriptions, specifications, application information and selection data on Chain Belt products for power transmission, conveving and elevating service.

Enter B66 on Inquiry Card

SAW BLADES-The Clipper Manufacturing Company has published a four color brochure # 3006 containing information on the Diamond, Break-Resistant, and Abrasive masonry and concrete cutting blades. Included are small-diameter blades for use on power hand saws. The pamphlet is available from the Clipper Manufacturing Company, Suite 133, Kansas City 8, Missouri.

Enter 867 on Inquiry Card

LIFT TRUCK MAINTENANCE-Lift truck owners and operators get tips on the care and servicing of materials handling equipment in a pocket-sized Preventive Maintenance Service Manual produced by Towmotor Corporation, Cleveland 10, Ohio, The booklet offers a 32-point check-list which helps avoid unnecessary repairs, and aids in spotting trouble.

Enter B68 on Inquiry Card

CONCRETE CARRIERS-An illustrated brochure describing Oshkosh 4-wheel drive and 6-wheel drive Concrete Carriers has been prepared by Oshkosh Motor Truck, Incorporated, Oshkosh, Wisconsin.

Enter 869 on Inquiry Card

HEAVY DUTY FLOORS-Increasing the life and serviceability of heavyduty floors by proper application is discussed in a four-page technical article now being offered by Walter Maguire Company, Inc., 60 East 42nd Street, New York, N. Y.

Enter 870 on Inquiry Card

TESTING EQUIPMENT — Physical testing equipment for constructional materials is described in 12-page Bulletin 55 released by the Tinius Olsen Testing Machine Company, 7606 Easton Road, Willow Grove, Pennsylvania.

Enter 871 on Inquiry Card

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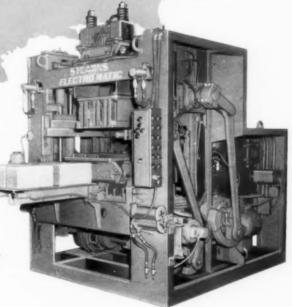
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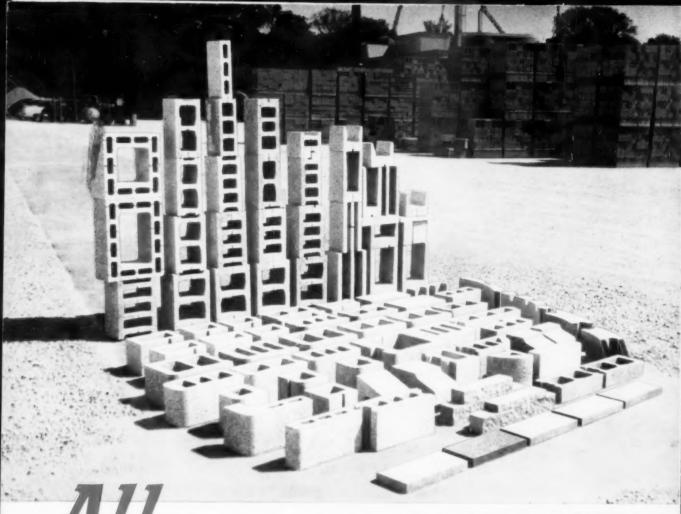
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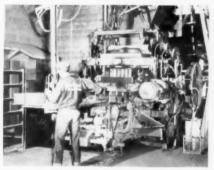


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